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PERSONAL.

Mr. Charles F. Wilson has been appointed City Engineer of Ottawa, Ill.

Mr. C. M. Canady has been appointed Engineer of the Pittsburg Branch of the American Bridge Co.

Mr. R. E. Bakenhus, Civil Engineer, U. S. N., was married on May 22 to Miss Edith Steacy Rogers, of Washington, D. C.

Mr. Gavin H. Houston, Assoc. M. Am. Soc. C. E., Superintendent and Engineer of the Nyack, N. Y., water-works, has resigned.

Mr. R. H. Keays, Assistant Engineer of the Department of Havana, Cuba, was married in May 2 to Miss Janet Hayes, of Albany, N. Y.

Mr. J. C. Kilmer has been appointed Chief Engineer of the Columbia, Huntsville & Northwestern R. R., with headquarters at Huntsville, Mo.

Mr. W. C. Jewett, M. Am. Soc. C. E., has been appointed Resident Engineer of the new Cincinnati, O., water-works, to succeed the late Alfred Petry.

Mr. J. B. K. Miller has resigned as Chief Engineer of the H. C. Frick Coke Co. to become head of the Operating Department of the J. W. Ellsworth Coal Co.

Mr. W. H. Creahan has been appointed Superintendent of the tube mills of the Youngstown Iron, Sheet & Tube Co., now being built by the American Bridge Co.

Mr. W. C. Ambrose has resigned as Resident Engineer of the Southern Pacific road at Kern and Bakersfield, Cal., which position he has held for the past 10 years.

Mr. W. J. Miller has been appointed Master Mechanic of the St. Louis Southwestern Ry., with headquarters at Tyler, Tex., to succeed Mr. C. J. Langston, resigned.

Mr. G. W. Inge has been appointed Superintendent of the Kansas City Northwestern R. R., with headquarters at Kansas City, Kan., succeeding Mr. R. E. Cahill, resigned.

Mr. E. C. Hathaway, of Lexington, Ky., has been appointed General Manager of the United Rys. and Light Companies of America, with headquarters at Richmond, Virginia.

Mr. R. S. Cookingham has resigned his position with the force of Engineer of the Mohawk River Commission and accepted a position with Troy Public Works Co., of New York.

Mr. R. W. Hargrave, Instructor in the College of Civil Engineering of the University of Wisconsin, has resigned to accept a position with the Northern Electric Co., of Madison, Wis.

Mr. Albert I. Frye, M. Am. Soc. C. E., Chief Engineer of the Pacific Bridge Co., has resigned, and has been appointed Chief Engineer of the Oregon Irrigation Co., with headquarters at Portland, Ore.

Mr. E. A. Peck, formerly General Superintendent of the St. Louis, Iron Mountain & Southern R. R., has been appointed Superintendent of the St. Louis Southwestern Ry., with headquarters at Pine Bluff, Ark.

Mr. James MacNaughton, Manager of the United States Steel Co.'s Menominee Range Mines, has been appointed General Manager of the Calumet & Hecla Mining Co., succeeding Mr. S. D. Warriner, resigned.

Mr. William Pestell, formerly employed by the Lynn & Boston R. R. as Electrical Engineer, has been appointed Superintendent of Motive Power of the Worcester Consolidated Street Ry. of Worcester, Mass.

Mr. R. E. Cahill, Superintendent of the Kansas City Northwestern R. R., has been appointed Superintendent of the Missouri Pacific R. R., with headquarters at Nevada, Mo., succeeding Mr. L. L. Keller, resigned.

Mr. A. Bostelman, General Superintendent of the Asiatic Division of the Trans-Siberian R. R., and of the company's steamship service connected with Port Arthur, is now stopping at the Fifth Avenue Hotel, New York city.

OBITUARY

Mr. Benjamin T. Lacy, President of the Parke & Lacy Co., manufacturers of mining machinery, died in San Francisco, Cal., on May 21.

Mr. Edward Hammond Smith, City Engineer of Lynn, Mass., died at his home in that city, on May 22, aged 43 years. He had been City Engineer since 1896.

Mr. Thewald Frederich Hammer, President of the Malleable Iron Fittings Co., died at his home, in Branford, Conn., on May 25, aged 76 years. He was born in Copenhagen, Denmark.

Mr. Job H. Jackson, President of the Jackson & Sharp Car Building Co., of Wilmington, Del., died in that city on May 23, at the age of 68 years. Mr. Jackson was one of the founders of the concern which bore his name, and had spent 13 years in its establishment.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ENGINEERS' CLUB OF PHILADELPHIA.
June 1. Topical discussion on "The Duty of the Engineer;" "To Himself and His Profession," by Edgar Marburg; "To His Clients or Employers," by James Christie; "To His Contractors or Employees," by L. Y. Schermerhorn; "To the General Public," by John C. Trautwine, Jr. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

NATIONAL ASSOCIATION OF MANUFACTURERS.
June 4 to 6. Annual meeting at Detroit, Mich. Secy., E. P. Wilson, Chamber of Commerce, Cincinnati, O.

AMERICAN FOUNDRYMEN'S ASSOCIATION.
June 4 to 6. Annual meeting at Buffalo, N. Y. Secy., Dr. R. G. Moldenke, New York city.

NATIONAL FIRE PROTECTION ASSOCIATION.
June 11 to 13. Annual meeting at Chicago, Ill. Secy., E. V. Crosby, Underwriters' Bureau of New England, Boston, Mass.

AMERICAN WATER-WORKS ASSOCIATION.
June 17 to 21. Annual convention in New York city. Secy., Peter Milne, Bennett Bldg., New York city.

CANADIAN ELECTRICAL ASSOCIATION.
June 19 to 21. Annual meeting at Ottawa, Ont. Secy., C. H. Mortimer, Confederation Life Bldg., Toronto, Can.

ASSOCIATION OF RAILWAY TELEGRAPH SUPERINTENDENTS.
June 19. Annual meeting at Boston, Mass. Secy., P. W. Drew, Wis. Cent. Ry., Milwaukee, Wis.

AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 19. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.

MASTER CAR BUILDERS' ASSOCIATION.
June 24. Annual convention at Saratoga, N. Y. Secy., Jos. W. Taylor, 667 Rookery Bldg., Chicago, Ill.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
June 29 to July 2. Annual meeting at Buffalo, N. Y. Secy., Henry S. Jacoby, Cornell University, Ithaca, N. Y.

RAILWAY TRANSPORTATION ASSOCIATION.
July 17. Annual meeting at Niagara Falls, N. Y. Secy., G. P. Conard, 24 Park Place, New York city.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—At the annual meeting, held on May 21, Dr. Schuyler S. Wheeler, President of the Crocker-Wheeler Co., of Ampere, N. J., presented to the Institute the library on Electricity of the late Latimer Clark, the eminent English electrical engineer. The library was recently purchased from the estate, and contains nearly 7,000 entries. It is stated that Mr. Andrew Carnegie has offered to give a sum of money to the Institute equal to the value of the library.

AMERICAN FOUNDRYMEN'S ASSOCIATION.—At the meeting to be held at Buffalo, N. Y., on June 4 to 6, the following programme will be presented: "Report of Committee on Standardizing Bureau," "Report of Committee on Standardizing the Testing of Cast-Iron," "The Benefits of the American Foundrymen's Association as Viewed by an Outsider," by Senator H. M. Ramp; "The Influence of Titanium on Cast-Iron," by Aug. J. Rossi; "The Problem of the Molder," by J. G. Sadlier; "The Foundry and Its Equipment," by Edw. B. Gilmour; "The Influence of Manganese on Cast-Iron," by Thos. D. West; "The Control of the Foundry," by Percy Longmuir.

WESTERN RAILWAY CLUB.—At the meeting on May 21 there were two papers read: One on "Center Plate Friction and Its Effect on Wheel Flange Resistance," by Mr. Willis C. Squire, Mechanical Engineer of the St. Louis & San Francisco R. R.; the other on "Some Characteristics of Waste Packing," by Mr. T. H. Symington, of Baltimore, Md. The first paper gave rise to considerable discussion, which included the respective merits of rigid and swing-motion trucks, and the advisability of having the car body rest continually upon the side bearings.

This was the last meeting of the season, and the election of officers for the year 1901-1902 resulted as follows: President, Prof. W. F. M. Goss; First Vice-President, J. F. Deems; Second Vice-President, G. R. Henderson; Treasurer, P. H. Peck; Secretary, Joseph W. Taylor; Directors, R. D. Smith and W. H. Marshall; Library Trustees, F. W. Sargent, F. A. Delano and F. H. Clark.

WESTERN SOCIETY OF ENGINEERS.—At a special meeting on May 22 a paper on "A Central Railway Terminal for Chicago" was read by Mr. R. C. Sattley, Division Engineer of Bridges and Buildings, Chicago & Northwestern Ry. The site proposed was on the west bank of the river, between Harrison and 12th Sts., the greater part of this site being already occupied by yards and tracks. The paper entered at considerable length into the details of the design and method of operation of the proposed station. Mr. E. E. R. Tratman, Associate Editor of Engineering News, presented a lengthy discussion, showing particularly the desirability of improving the present terminal facilities by means of one or more union stations, and also the desirability of reducing the area of the business section of the city now occupied as railway yards. This could be done partly by double-deck terminals and high freight stations, so as to utilize the area to much greater advantage. Mr. L. P. Morehouse questioned the advisability of concentrating the passenger and freight traffic, and Mr. Geo. H. Bremner (Chicago, Burlington & Quincy R. R.) doubted whether the freight terminals would have sufficient capacity, and whether the streets would accommodate the concentrated passenger traffic. Mr. Sattley, however, showed that his plans provided for widened streets and for connections with the elevated railways.

NEW PUBLICATIONS.

PROGRESS OF FOREST MANAGEMENT IN THE ADIRONDACKS.—Annual report of the Director of the New York State College of Forestry. Cornell University, Ithaca, N. Y. Paper; 5¾ x 7¾ ins.; pp. 40.

This is the third annual report by Mr. Fernow, and shows that there were 25 regular-students and 29 other students taking certain courses. Within the college forest a stave and heading factory to utilize the logs, and a wood-alcohol plant to utilize the cordwood are being built under contract. Particulars are given of the forest conditions and of the methods of operating this forest to produce annual crops permanently.

THE BRITISH ASSOCIATION OF WATER-WORKS ENGINEERS.—Transactions for 1900. Edited by Percy Griffith, Secretary. London: Biggs & Co. New York: D. Van Nostrand Co. Paper; 6 x 9 ins.; pp. 224, xliii.; tables and illustrations.

This association was formed in 1896, and has now issued five volumes of Proceedings. The present volume contains, among other papers and discussions, the following: "The Relation Between the Cost of Water Wasted and the Cost of Detection and Prevention of Waste;" "Protection of Underground Water Supplies," and "The Cardiff Water Supply." The latter is by Mr. Charles Henry Priestley, Assoc. M. Inst. C. E., Water-Works Engineer of Cardiff, Wales, and President of the Association.

PROCEEDINGS OF THE RAILWAY SIGNALING CLUB.—Published by the Club; Secretary, C. O. Tilton, C., M. & St. P. Ry., West Milwaukee, Wis. Paper, 8vo.; pp. 191; illustrated.

This is the third volume of the proceedings, and shows a considerable increase in size over previous volumes. It contains the reports, papers and discussions of the five meetings held last year. The principal papers are as follows: "Facing Points and Slip Switches," "Maintenance and Inspection of Automatic Electric Block Signals," "Pipe-Connected Signals for Mechanical Interlocking," "Technical Instruction in Railway Signaling and Interlocking," "Interlocking Protection for Grade-Crossings," "Automatic Block Signal Failures Due to Lightning," "Back Lights," "Progress and Uniformity," "Automatic Signal Locations."

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins., and 9x12 ins.)

PUNCHING PRESSES.—E. W. Bliss Co., Brooklyn, N. Y. Paper; 5 x 7 ins.; pp. 24; illustrated.

This catalogue describes power punching presses for various purposes.

CHAINS.—Jas. McKay & Co., Pittsburg, Pa. Paper; 8 x 6 ins.; pp. 32; illustrated.

This is a very complete catalogue of iron and steel chains manufactured by the above company.

STEEL-PLATE FANS.—Boston Blower Co., Hyde Park, Mass. Paper; 6 x 9 ins.; pp. 54; illustrated.

This is a descriptive catalogue of exhaust and blower fans, manufactured by the above company.

TILE CONDUITS.—G. M. Gest, Park Row Bldg., New York city. Paper; 6 x 8 ins.; pp. 16; illustrated.

This pamphlet, entitled "In the Trenches," describes vitrified tile conduits for electric cables.

TURBINE WATER-WHEELS.—The Holyoke Machine Co., Holyoke, Mass. Paper; 5 x 7 ins.; pp. 88; illustrated.

This is a descriptive catalogue of the "Hercules" turbine water-wheel, water-wheel governors, penstocks, etc.

GAS ENGINES.—Backus Water Motor Co., Newark, N. J. Paper; 6 x 9 ins.; pp. 24; illustrated.

The engines herein described are of the horizontal four-stroke cycle type, ranging from 2½ to 100 HP. in size.

FIRE PROTECTION SUPPLIES.—Eureka Fire Hose Co., P. O. Box 1330, New York city. Paper; 3 x 6 ins.; pp. 31; illustrated.

This is a catalogue of fire hose, hose nozzles, hose racks, etc.

ELECTRICAL CONDUCTORS.—American Steel & Wire Co., Washburn & Moen Dept., New York city. Paper; 3 x 6 ins.; pp. 32; illustrated.

This is a condensed presentation of the leading features of electric conductors and other equipment for street railways, electric light and telephone systems and power circuits. It includes complete tables, properties and dimensions of copper wires and cables.

PIPE, VALVES, AND WATER-WORKS AND PLUMBING SUPPLIES.—James B. Clow & Sons, 222 Lake St., Chicago. Set of 10 mailing cards; all about 7 x 11 ins.

This somewhat novel style of advertising publication consists of a set of gaily colored and printed cards, each dealing with one of the various specialties of the company, and referring the reader to the pages of the regular catalogue upon which more detailed information will be found.

ODORLESS EXCAVATING APPARATUS.—Edson Mfg. Co., 132 Commercial St., Boston, Mass. Paper; 7 x 10 ins.; pp. 12; illustrated.

This catalogue describes everything necessary for emptying and carting away the contents of cesspools and privy vaults in those towns still so unfortunate as to be without or inadequately provided with sewerage systems. The outfits include diaphragm force pumps, hose, and tank or barrel carts and wagons.

PUMPING ENGINE.—Heisler Pumping Engine Co., Erie, Pa. Paper; 6 x 9 ins.; pp. 12; illustrated.

This is an abstract of the paper read before the spring meeting of 1900 of the American Society of Mechanical Engineers describing the Heisler high-duty pumping engine. The engine is triple expansion, with two water cylinders. Linkages transmit power from one piston rod to the other in such a manner that each piston is assisted at the end of its stroke, thus permitting an early cut-off and consequent economy of steam.

WHO USES MECHANICAL DRAFT?—6½ x 9 ins.; pp. 33. The B. F. Sturtevant Co., Boston, Mass.

Over fifteen years ago one of the members of the present editorial staff of Engineering News saw his first contribution to technical literature published in the columns of this journal under the title "Forced Draft and Boiler Economy." In this article it was urged that forced draft properly applied was an economical and not a wasteful adjunct of a steam plant. At that time there were probably not a dozen stationary boiler plants of large size using forced draft. The little book before us shows that in the United States alone one company has equipped over 500 stationary boiler plants for mechanical draft, and the list includes many of the largest concerns in the country. In view of the showing made by this book, the use of blowers to produce draft has a right to be considered standard engineering practice.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
May 30.	Dredging (56,000 yds.),	Oregon.	May 2
	Advertised, Eng. News, May 2 to 23.		
May 31.	Plumbing, heating, etc.,	Washington, D. C.	May 9
	Advertised, Eng, News, May 9 to 30.		
June 1.	Boilers, etc.,	Riverside, Ill.	May 23
	Advertised, Engineering News, May 23.		
June 1.	Telegraph,	Washington, D. C.	May 23
	Advertised, Engineering News, May 23.		
June 1.	Road rollers (2),	Springfield, Mass.	May 23
June 1.	Asphalt paving,	Washington, D. C.	May 9
	Advertised, Engineering News, May 9.		
June 1.	Electric franchise,	Dyersburg, Tenn.	Apr. 18
June 1.	Water-works franchise,	Dyersburg, Tenn.	Apr. 18
	Advertised, Eng. News, Apr. 25, May 9 and 23.		
June 1.	Excavation for reservoir canal,	Goshen, N.Y.	Apr. 18
	Advertised, Eng. News, Apr. 11 and 18.		
June 1.	Bridge substructure,	Dubuque, Ia.	May 2
	Advertised, Eng. News, May 2 and 9.		
June 1.	Suction pipe, etc.,	Two Rivers, Wis.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 1.	Remodeling bridge,	Waterford, N. Y.	May 16
	Advertised, Engineering News, May 16.		
June 1.	Paving, etc.,	Washington, D. C.	May 16
	Advertised, Engineering News, May 16.		
June 1.	Sewer brick, etc.,	Washington, D. C.	May 16
	Advertised, Engineering News, May 16.		
June 1.	Sewer pipe, etc.,	Washington, D. C.	May 16
	Advertised, Engineering News, May 16.		
June 1.	Cement, sand, etc.,	Washington, D. C.	May 16
	Advertised, Engineering News, May 16.		
June 1.	Power house, chimney, etc.,	Macomb, Ill.	May 30
June 1.	Public lighting,	Suffolk, Va.	May 30
June 3.	Steel bridge,	Clarksdale, Miss.	Apr. 18
	Advertised, Engineering News, April 18.		
June 3.	Water-works,	Mt. Pleasant, Tenn.	May 2
June 3.	Officers' quarters,	West Point, N. Y.	May 9
	Advertised, Eng. News, May 9 to 23.		
June 3.	Dikes,	Savannah, Ga.	May 9
	Advertised, Eng. News, May 9 to 30.		
June 3.	Laying water pipe, etc.,	New London, Conn.	May 16
	Advertised, Engineering News, May 16.		
June 3.	Pontoons, pipes, etc.,	St. Louis, Mo.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 3.	Mill building,	Columbus, Miss.	May 23
June 3.	Pumping plant, etc.,	St. Louis, Mich.	May 30
June 3.	Water mains (3 miles),	Sheridan, Wyo.	May 30
June 4.	Water works,	Glen Rock, Pa.	May 23
June 4.	Officers' quarters,	Fort Du Pont, Del.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 4.	Steel bridges (10),	Brownstown, Ind.	May 16
June 4.	Dam (400 ft.),	Ohio River.	May 2
	Advertised, Eng. News, May 2 to 23.		
June 4.	Electric lighting,	Pottsville, Pa.	Apr. 25
June 4.	Paving,	Rushville, Ind.	May 30
June 5.	Water, sewer, light systems,	Riverside, Cal.	May 2
June 5.	Steel bridge,	Toledo, Ore.	May 2
June 5.	Brick sewers, etc.,	New York, N. Y.	May 16
June 5.	Electric plant,	Cleveland, O.	May 16
June 5.	Drilling well, etc.,	Warren, Ill.	May 23
June 5.	Bridge superstructure,	Lancaster, Pa.	May 23
June 5.	Grade-crossing,	Salamanca, N. Y.	May 23
	Advertised, Eng. News, May 23 and 30.		
June 5.	Dredging and plant,	Baltimore, Md.	May 23
June 5.	Light-houses,	Portland, Ore.	May 23
June 6.	Plans for school,	Oshkosh, Wis.	May 30
June 5.	Schools (12),	St. Louis, Mo.	May 30
June 5.	Water-works & sewers,	Lamberton, Minn.	May 30
June 5.	Paving,	Bridgeport, Conn.	May 30
	Advertised, Eng. News, May 30.		
June 6.	Screenings,	New York, N. Y.	May 30
June 6.	Filter plant,	Binghamton, N. Y.	May 23
June 6.	Water and light bonds,	Winchester, Pa.	May 23
June 6.	Sea wall,	Newport, R. I.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 6.	Cement (9,000 bbls.),	Cincinnati, O.	May 9
June 7.	Extending breakwater,	Grande Anse, N. B.	May 16
June 7.	Building,	Chillicothe, Mo.	May 16
June 7.	Street improvements,	Lima, O.	May 23
June 7.	Bridges (5),	Paulding, O.	May 30
June 7.	Sewer materials,	Beverly, Mass.	May 30
	Advertised, Eng. News, May 30.		
June 7.	Water mains, etc.,	Northampton, Mass.	May 30
June 7.	Macadamizing,	Roselle, N. J.	May 30
	Advertised, Eng. News, May 30 and June 6.		
June 7.	Street signs,	Holyoke, Mass.	May 30
	Advertised, Eng. News, May 30.		
June 8.	Building,	Fort Steilacoom, Wash.	May 30
June 8.	Officers' quarters,	Alexandria, Va.	May 30
June 8.	Jail,	Lewiston, Mont.	May 16
June 8.	Paving, etc.,	Janesville, Wis.	May 16
June 8.	Coaling plant,	Boston, Mass.	May 9
June 10.	Draw-bridge,	Modesto, Cal.	May 2
June 10.	Wiring post office,	Beaumont, Tex.	May 9
June 10.	Electric lighting,	Sandusky, O.	May 16
June 10.	Garbage crematory,	Newport News, Va.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 10.	Drainage,	Varna, Ont.	May 16
June 10.	Hydrants, etc.,	Sault Ste. Marie, Ont.	May 23
	Advertised, Engineering News, May 23.		
June 10.	College buildings,	Moscow, Idaho.	May 23
June 10.	Completing school,	Cleveland, O.	May 23
June 10.	Officers' quarters,	Governor's Island, N.Y.H.	May 30
June 10.	Grading,	Shirley, Mass.	May 30
June 10.	Grading,	Des Moines, Ia.	May 30
June 10.	Electrical apparatus,	Greenport, N. Y.	May 30
June 10.	Court house,	Ozona, Tex.	May 30
June 10.	Water-works and sewers,	Fort Baker, Cal.	May 30
June 11.	Grading,	South Bend, Ind.	May 30
June 11.	Paving,	Binghampton, N. Y.	May 30
	Advertised, Eng. News, May 30 and June 6.		
June 11.	Roads,	Fort Hamilton, N. Y.	May 23
	Advertised, Engineering News, May 23.		
June 11.	Sewers, etc.,	Dayton, O.	May 23
June 11.	School building,	Waterloo, Ia.	May 16
June 11.	Dormitory,	Fulton, Mo.	May 9
June 11.	Court house,	Reidsville, Ga.	May 2
June 12.	Freight house, etc.,	Matanzas, Cuba.	Apr. 25
	Advertised, Eng. News, Apr. 18 to May 23.		
June 12.	Removing wreck,	Galveston, Tex.	May 16
	Advertised, Eng. News, May 16 to June 7.		
June 12.	Library,	Fort Dodge, Ia.	May 30
June 12.	Electric plant,	Sharpsburg, Pa.	May 30
June 12.	Paving,	North Adams, Mass.	May 30
	Advertised, Eng. News, May 30 and June 6.		
June 13.	Steel bridge,	Shreveport, La.	May 23
June 13.	Stand-pipe, pump, etc.,	New York,	May 23
June 13.	Shore protection,	Mobile, Ala.	May 23
June 13.	Street improvements,	Springfield, O.	May 23
June 13.	Jail,	Shreveport, La.	May 23
June 13.	Library foundations,	New York, N. Y.	May 30
June 13.	Bridge,	Indianapolis, Ind.	May 30
June 14.	Bridge,	Cheyenne, Wyo.	May 30
June 14.	Street improvements,	Wapakoneta, O.	May 30
June 14.	Street improvements,	Wapakoneta, O.	May 30
June 15.	Arc lighting,	Penn Yan, N. Y.	May 30
June 15.	Reconstructing buildings,	Galveston, Tex.	May 30
June 15.	Buildings,	Washington, D. C.	May 23
June 15.	Bridges (9),	Terre Haute, Ind.	May 23
June 15.	Steel work, buildings,	Seattle, Wash.	May 30
June 15.	Electric plant,	Ellisville, Miss.	May 30
June 17.	Water-works improvements,	Joliet, Ill.	Apr. 25
	Advertised, Apr. 25, May 2, 16, 30, June 13.		
June 17.	School building,	Bristol, O.	May 9
June 17.	Bridge abutments,	Andover, N. B.	May 9
June 17.	School house,	Fredonia, N. Y.	May 16
	Advertised, Eng. News, May 16 to 30.		
June 17.	Electric wiring, etc.,	New Brighton, Pa.	May 23
June 17.	Courthouse,	Garnett, Kan.	May 30
June 17.	Sewerage system,	Monroe, La.	May 30
	Advertised, Eng. News, May 30 and June 6.		
June 17.	Water-works,	Midland, Ont., Can.	May 30
June 17.	Paving,	Glens Falls, N. Y.	May 30
	Advertised, Eng. News, May 30.		
June 17.	Paving,	Glens Falls, N. Y.	May 30
June 18.	Water-works,	Jasper, Minn.	May 30
June 18.	Jetty,	Galveston, Tex.	May 23
	Advertised, Eng. News, May 23 to June 13.		
June 18.	Pumping engines (6),	Cincinnati, O.	Mar. 21
	Advertised, Mar. 21, Apr. 4, 18, May 2, 16, 30.		
June 18.	Jail building,	Forsyth, Ga.	May 2
June 18.	Boiler plant (building),	Xenia, O.	May 23
June 18.	Road improvements,	Bowling Green, O.	May 30
June 18.	Pipe line franchise, etc.,	Los Angeles, Cal.	May 30
June 19.	Electric plant,	Fort Greble, R. I.	May 23
	Advertised, Eng. News, May 23 to June 6.		
June 19.	Wiring building,	Philadelphia, Pa.	May 30
June 20.	Electric wiring system,	Monmouth, Ill.	May 30
June 20.	Electric lighting,	Mount Vernon, O.	May 31
June 20.	Paving,	Lima, O.	May 30
June 20.	Water pipe, hydrants, etc.,	Tucson, Ariz.	May 30
	Advertised, Eng. News, May 30 and June 6.		
June 20.	Water-works, sewers, etc.,	Sussex, N.B.	May 30
June 22.	Sewers,	Washington, D. C.	May 30
	Advertised, Eng. News, May 30.		
June 22.	Water-works,	New Matamoras, O.	May 30
June 22.	Steel roof, crane, etc.,	Boston, Mass.	May 30
June 22.	Dredging,	Washington, D. C.	May 30
June 24.	Water tower, etc.,	Radcliffe, Ia.	May 30
June 24.	Dredging,	Pearl Harbor, H. I.	[illegible]
June 24.	Sea wall,	New York, N. Y.	May 23
	Advertised, Eng. News, May 23 to June 13.		
June 25.	Engines, etc.,	Cairo, Egypt.	Apr. 25
June 25.	Sewage pump'g machinery,	Pittsfield, Mass.	May 30
	Advertised, Eng. News, May 30 and June 13.		
June 27.	Dredging,	Bay Natchez, La.	May 30
	Advertised, Eng. News, May 30 and June 20.		
June 28.	Road bonds,	Greenville, N. C.	May 30
June 28.	School bonds,	Stockton, Cal.	May 30
June 28.	Pumping engines,	Minneapolis, Minn.	May 16
June 29.	Salt-water plant,	Bremerton, Wash.	May 30
June 29.	Building,	Bremerton, Wash.	May 30
June 29.	Bolts, castings, etc.,	Charleston, S. C.	May 30
	Advertised, Eng. News, May 30 and June 20.		
June 30.	Pipe sewers,	Tampa, Fla.	Apr. 25
No date.	Railroad work,	Ste. Genevieve, Mo.	May 23
	Advertised, Eng. News, May 23 and 30.		

RAILWAYS.

ARKANSAS WESTERN.—L. C. Tanner, Ch. Engr., Waldron, Ark., informs us that this road is now under contract to J. F. Williams, Huntington, Ark., from a point in Indian Territory to Waldron, Ark., a distance of 32 miles. The contractor has already graded 24 miles of the road and will finish the work by September. The line will eventually be 120 miles in length. C. C. Godman, Pres., Ft. Smith.

ATCHISON, TOPEKA & SANTA FE.—It is reported that the company will soon begin work on the relaying of the track between Barstow, Cal., and Mojave, a distance of 71 miles, with 75-lb. steel rails. When the new work is completed the entire system west of Albuquerque will have been rebuilt. J. Dun, Ch. Engr., Chicago, Ill.

BOSTON COAL & FUEL CO.—G. W. Franklin, Supt., Durango, Colo., writes that the company is constructing this line with its own forces. Work has just been started. Surveys are made and rights of way secured. Geo. C. Franklin, Pres., Durango.

CENTRAL ARKANSAS & EASTERN.—Incorporated in Arkansas, with a capital stock of $100,000, to build a road 15 miles in length in Pulaski and Lonoke counties. J. A. Bowman, W. S. McCain and N. B. Beakley are incorporators.

CHICAGO, BURLINGTON & QUINCY.—It is reported probable that an extension is to be built this year to Pueblo, Colo.

CHICAGO, ILL.—The Committee on Track Elevation of the city council has ordered the elevation of nearly 38 miles of track in this city, involving five different roads and costing in the neighborhood of $4,000,000. The roads affected by the order are the Illinois Central, the New York, Chicago & St. Louis, the Baltimore & Ohio, the Lake Shore & Michigan Southern and the Pittsburg, Ft. Wayne & Chicago. They are given until 1907 to complete the work, but it is expected that it will be finished before that time.

CONNECTICUT WESTERN.—The House of Representatives of Connecticut has adopted resolutions granting permission to this company to extend its lines from Tariffville to Springfield.

COPPER BELT.—Incorporated in Utah, with a capital stock of $100,000, to operate under lease the road partly constructed by the Rio Grande Western Ry., extending from Bingham to the mine of the Bingham Copper & Gold Co., three miles distant, the company to furnish the rolling stock. Wm. Baigly, Pres.

DES MOINES, IOWA FALLS & NORTHERN.—Chas. Hutchinson, Secy., Iowa Falls, Ia., informs us that the contract for the construction and equipment of 74 miles of this road from Iowa Falls to Des Moines has been let to the Globe Construction Co., 523 Chamber of Commerce Bldg., Chicago, Ill. The surveys have been completed for the entire distance, 140 miles, and the rights of way for one-fourth. The road will extend from Des Moines through Iowa Falls to some point on the northern boundary of Iowa. E. S. Ellsworth, Pres., Iowa Falls; B. Schreiner, Ch. Engr., Des Moines.

IOWA & ST. LOUIS.—This company has been incorporated in Missouri to build a road from Novinger, on the Omaha, Kansas City & Eastern R. R., in Adair county, Mo., to Sibley Point, a distance of five miles. The capital stock is placed at $50,000. H. H. Kendrick, W. J. Stonebruner and J. B. Delaney, Kansas City, are interested.

JACKSONVILLE MIDLAND.—J. H. Jackson, Pres., Jacksonville, Ill., informs us that this company was incorporated to furnish terminal facilities and lines in Jacksonville for the Jacksonville, Louisville & St. Louis Ry. Work has been started and will be completed in 90 days. The line, if extended to Concord, will be an extension of the Jacksonville, Louisville & St. Louis Ry., and will form a connection with the Chicago, Burlington & Quincy R. R. B. F. Bond, Ch. Engr.

LAKE ERIE, ALLIANCE & WHEELING.—The contract for the first eight miles of the line to be built by this company from Alliance, O., to Dillonvale, 28 miles, has been let to A. W. McDonald & Co., Pittsburg, the contract price being about $150,000. The work will be heavy. It is estimated that the grading of the entire road will cost nearly $750,000. There will be three stations the first five miles of road north of Unionport. James A. Garfield, Edward H. Kline and W. B. Stewart are interested.

LOUISVILLE & NASHVILLE.—The contract for the Geneva, Ala., extension of the Alabama & Florida Division of this road has been awarded and work will begin at once. The road runs from Geneva to Graceville, Fla., and will open up a fine lumber and turpentine section.

MORNING STAR.—Geo. H. Heafford, Vice-Pres., 703 Fisher's Bldg., Chicago, Ill., informs us that the survey for this proposed line will be finished about July 15. The line will run from Newport, Ark., via Rush, to Yellville, about 125 miles.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—Surveys are being made for a branch road from Bolivar or Bridgeport, Ala., to the Cumberland Mountain coal fields, which will be about nine miles in length. H. McDonald, Ch. Engr., Nashville.

NEW YORK, NEW HAVEN & HARTFORD.—John J. O'Brien, New York, N. Y., has received a contract for a part of the improvements to be made by the company at Bridgeport, Conn. The work will require about 215,000 lin. ft. of filling and about 12,000 cu. yds. of masonry.

NORTHERN MICHIGAN.—Incorporated in Michigan, with a capital stock of $1,000,000, to build a line of railway from Sault Ste. Marie to St. Ignace, about 60 miles, passing through Chippewa and Mackinaw counties. J. E. Byron, Boyden; G. W. Cobb and W. W. Gristead, of Chicago, are interested.

OREGON RIVER & NAVIGATION CO.—Surveyors are in the field locating a new route for the road between the Dalles, Ore., and a point 10 miles from Portland. The new route will be located nearer the river, and will cut off an appreciable distance. As soon as surveys are completed the company will put a force of 1,000 men on the new work. W. H. Kennedy, Ch. Engr., Portland.

OREGON SHORT LINE.—The company is said to have selected the Clover Valley route for the Los Angeles extension. The route is from Clover Valley Junction southwest to the California State line. W. H. Bancroft, Pres. and Gen. Mgr., Salt Lake City, Utah.

PENNSYLVANIA R. R.—The survey of the proposed new route between Philadelphia and Wilmington, Del., has been completed. The improvements said to be contemplated at Wilmington will cost in the neighborhood of $3,000,000. W. H. Brown, Ch. Engr., Philadelphia.

PLANT SYSTEM.—The surveys for the Jesup Short Line have been completed and the contract is let to Wright, McCrarie & Elkins, contractors, of Savannah, Ga. Work will be started at once. The line will be 52 miles in length.

QUEEN ANNE'S.—An extension of this road through Talbot county, Md., via Easton and Trappe, to a point on the Choptank River opposite Cambridge, is in prospect for the near future. W. H. Bosley, Pres., Baltimore, Md.

RICE LAKE & NORTHERN.—Geo. M. Huss, Gen. Mgr., Rice Lake, Wis., informs us that work is now under way on this road, which will run from Rice Lake to Brick Lake and Ashland, a distance of 100 miles. S. G. Jones, Ch. Engr., Rice Lake.

SHERMAN & NORTHERN.—A charter has been issued to this company in Texas, capitalized at $100,000, to build and operate a railway from Sherman north to a point on the Red River near Cedar Mills, a distance of 30 miles. Cecil A. Lyon, C. A. Craycroft and J. H. Strother, Sherman, are incorporators.

SOUTHERN R. R. OF NEW MEXICO.—Incorporated in New Mexico, with a capital stock of $2,000,000, for the purpose of building a road from El Paso to a point on the Arizona-New Mexico boundary, where a connection will be made with the Arizona Southwestern R. R. The company's headquarters will be at Deming. Chas. W. Parson, New York, N. Y.; Geo. W. Carman, Montclair, N. J., and A. J. Clark, Deming, are interested.

SPRINGFIELD & DECATUR.—Incorporated in Illinois to construct a road from Decatur to Springfield to connect with the Q. D. & W. and the Chicago & Alton. The road will be an extension of the Indiana, Decatur & Western R. R., which company, it is said, will begin work in a short time. The capital stock is $500,000. Frank C. Roby, Benj. O. McReynolds and Kilburn H. Roby, Jr., Decatur, are interested.

TAYLOR PARK.—Articles of incorporation have been filed by this company in Colorado, capitalized at $1,000,000, which proposes to build a railway to run from Aspen, Colo., to Buena Vista, through the Taylor Park country. Archibald A. Stewart, Ed. O. Chase and H. A. Olsen, of Chicago, Ill., are incorporators.

UTICA & MOHAWK.—This company has filed an extension of its route from Utica to Frankfort, N. Y. The new route is over private land. Chas. H. Clark, Ch. Engr.

VIRGINIA & SOUTHWESTERN.—F. R. Barrett, Engr., Bristol, Tenn., is reported to have completed a survey for an extension of this road from Maymead to Mountain City.

WEST SIDE BELT R. R.—James H. McRoberts, Ch. Engr., 400 Grant St., Pittsburg, Pa., informs us that the Pittsburg Construction Co., Seventh Ave. and Smithfield St., Pittsburg, was awarded the contract on May 24 for building the company's line, and has already started work with 170 men. The line will be 20 miles in length, and will run through Banksville, West Liberty, Castle Shannon and Bruce. The locations have been made and rights of way are secured for a distance of 13 miles.

WINSTON & WADESBORO.—Application has been made for a charter for this road, 90 miles. It will give connection by rail between those points in North Carolina. Its capital stock is placed at $500,000. Thos. Wilson, R. G. Rhett and John McSween, Charleston, S. C., are interested.

STREET AND ELECTRIC RAILWAYS.

ALBANY, N. Y.—The Golden Bridge Electric Ry. Co. has been incorporated, with a capital stock of $100,000, to construct an electric road between North Salem, N. Y., and Ridgebury, Conn. E. B. Brady, Golden Bridge; F. W. Siebert, Waterbury, and John Brophy, Ridgefield, Conn., are directors.

BALLSTON, N. Y.—The stockholders of the Ballston Terminal Electric R. R. have voted to increase the capital stock from $300,000 to $1,500,000, to provide for the extension of this road from the village to Amsterdam, a distance of 20 miles.

BUFFALO, N. Y.—U. L. Upson, Vice-Pres., Cattaraugus, writes us that the survey for the proposed electric line of the Buffalo, East Otto & Cattaraugus Ry. Co. is near-

ing completion, and the rights of way are mostly secured through lands. Contracts will be let between July 15 and Aug. 1. Negotiations for the construction capital are now under way. The line will be 36 miles in length, running from Buffalo to Hamburg, East Otto and Cattaraugus. H. L. Moench, 117 Beach St., Boston, Mass.

GREENWICH, N. Y.—I. C. Blandy, Pres. Greenwich & Johnsonville Ry. Co., writes us that the company has of recent date changed hands, and the present proprietors have surveys under way for an extension of the road from this place to Schuylerville, a distance of seven miles, under the direction of C. B. Vorce, Ch. Engr., of Hartford, Conn., who will have full charge of the construction work. Proposals for building the new extension will probably be called for about the middle of June.

HAMBURG, N. Y.—The Buffalo, Hamburg & Aurora Ry. has abandoned its plan of extending its line from Orchard Park to East Aurora, having secured control of the Buffalo, Gardenville & Ebenezer Ry., which company has a line to Ebenezer, and a franchise from there to East Aurora via Springbrook.

SCHENECTADY, N. Y.—The Schenectady Ry. Co. has been granted a franchise by the town of Niskayuma to build an electric road along the Troy Turnpike to Colonie. N. H. Schermerhorn, Supt.

NEWARK, N. J.—The Essex Cross Ry. Co. has filed articles of incorporation, with a capital stock of $500,000, for the purpose of building an electric road from Bloomfield through East Orange, Orange and Irvington. John A. Lawrence, Bloomfield; Wm. A. Franklin, East Orange, and Geo. A. Smith, Vailsburg, are interested.

TRENTON, N. J.—The contract for constructing the Princeton extension of the Trenton, Lawrenceville & Princeton Electric R. R. has been let to Michael Hurley, contractor, who will begin the grading at once with 100 men. The work will be pushed as rapidly as possible.

WILLIAMSPORT, PA.—The Williamsport & Lock Haven Traction Co. has been incorporated, with a capital stock of $150,000, to build a road 28 miles long, joining those towns. Work on the grading will be started at once. Most of the line is said to be already graded, and it is stated that the construction may be started soon. The road will touch Linden, Jersey Shore, Oak Grove and Chatham's Run. J. Henry Cochran, Pres., Williamsport.

SISTERSVILLE, W. VA.—H. W. McCoy, Pres. Tyler R. R., informs us that the survey for the company's line is nearing completion. It will be run from Sistersville to Middlebourne, about 11 miles, and will be operated by electricity. E. L. Benton, Ch. Engr., Sistersville.

BIRMINGHAM, ALA.—J. B. Burns, Pres., Metropolitan Rapid Transit, Light & Power Co., Woodlawn, informs us that the company's road will run through Birmingham, Ensley, Avondale, Woodlawn to East Lake, having a total length of 20 miles. Good progress is being made with the surveys and rights of way, and contracts for construction will be awarded in the near future. The capital is secured. R. R. Zill, Ch. Engr.

LOUISVILLE, KY.—At a recent meeting of the directors of the Louisville, Mt. Washington & Fairfield Electric Ry. it was decided to begin the construction of the road within the next month. Roland Cox, Ch. Engr., expects to have the road completed by fall. J. C. Wright, Secy.

CINCINNATI, O.—The Cincinnati Traction Co. has awarded contracts for the extensive repair and additions to its present system to the North American Construction Co., Chicago. The contract amounts to about $750,000.

FINDLAY, O.—Application will soon be made for a charter for the Findlay, Columbus Grove & Ft. Wayne Co., to be capitalized at $50,000, which will build an electric line, work to be started next month. J. H. Whistler, Benton Ridge; G. W. Risser, Ottawa, and C. E. Niles, Findlay, are promoters of the new line.

TOLEDO, O.—We are informed that the surveys and profiles for the Toledo & Bryan Air Line Ry. are completed, and 90% of the right is secured. All franchises are secured, and work was started on the right of way about three months ago and is progressing rapidly. The $1,500,000 capital stock is entirely paid in. Contracts have not been awarded. The road will be operated by electricity, and will connect the points named, passing through Holland, Swanton, Wauseon and Archibald, having a total length of 56 miles. Milton Taylor, Pres.; W. C. Brewer, Ch. Engr., Toledo.

WELLSVILLE, O.—The council has granted a franchise to the East Liverpool & Wellsville St. Ry. Co. for an extension of its tracks from Main St. to Clark Ave. A car barn will be built in this city. L. W. Healy, Gen. Mgr., East Liverpool.

ATTICA, IND.—Local papers state that a franchise has been granted to C. M. McCabe for an electric railway from this place to Newton, Mellott and Stone Bluff to Covington. Ten miles of road will be built within two years and the remainder within ten years.

INDIANAPOLIS, IND.—The Indianapolis & Southwestern Traction Co., which proposes to build an electric line to Martinsville from this city, paralleling the I. & V. R. R., has filed articles of incorporation, capitalized at $50,000. Surveys have been made for the company's line as far as Brooklyn, nine miles from Martinsville. J. E. Lowes, Dayton; R. E. Field, Cincinnati, and Jesse C. Tarkington, Indianapolis, are interested.

HOWELL, MICH.—The Detroit, Howell & Lansing Ry. Co. has been incorporated, with a capital stock of $500,000, to build an electric road connecting those points and intermediate towns. The promoters of this company are connected with the Detroit Construction Co. A. L. Parker is interested.

JOLIET, ILL.—The Chicago & Joliet Electric Ry. Co. has received a 20-year franchise for a line to Ingalls Park, on which work will be started at once. F. E. Fisher, Mgr.

KAUKAUNA, WIS.—The council has granted a franchise to the Wisconsin Light, Heat & Traction Co. for building an electric railway in this city for a period of 40 years. The company is empowered to build to South Kaukauna, when that city has a population of 15,000.

CHARLES CITY, IA.—L. J. Powers, Powersville, writes us that the Charles City Ry. Co. has secured the rights of way for its line and will award contracts in the near future. The line will be 20 miles long, running from this city to Clarksville via Powersville, and will be operated by electricity.

LOS ANGELES, CAL.—The Interurban Ry. Co. has been incorporated, with $1,000,000 capital stock, to build and maintain an electric road from this city to Santa Ana, and also a line to Long Beach. Franchises have already been granted in the name of D. H. Thomas, Santa Ana. M. R. Trask and J. M. Gardiner are interested.

LODI, CAL.—The directors of the Amador Electric Ry. & Light Co. are said to be considering the feasibility of building an electric line to connect Stockton with the mountains to the east.

NEVADA CITY.—The Nevada County Traction Co. has issued bonds to the amount of $100,000 for the building and equipment of its proposed electric road between this city and Grass Valley.

REDDING, CAL.—Parties have secured rights of way for the construction of an electric road from the Sacramento River to the Bully Hill mine, 12 miles distant. It is to be a standard gage road, and will connect with the Southern Pacific near Kennett.

ELECTRIC LIGHT AND POWER.

CAMBRIDGE, N. Y.—Bids are asked until Aug. 1 for lighting the streets, etc., for five years from Jan. 1, 1902. J. W. Smith, Village Clk.

FRANKFORT, N. Y.—This place has voted to issue $18,000 in bonds for an electric plant.

GREENPORT, N. Y.—Bids are asked until June 10 for furnishing a 125-HP. boiler, a 115-HP. engine, a 75-K-W. generator, etc. G. H. Corwin, Jr., Clk.

NEW YORK, N. Y.—The Consolidated Gas Co. has filed plans for two new gas tanks on 111th St., between 1st Ave. and the Harlem River, to cost about $500,000.

PATCHOGUE (L. I.), N. Y.—John Gerity proposes to begin at once on the construction of a $50,000 gas plant.

PENN YAN, N. Y.—Bids are asked until June 15 for furnishing 50 to 70 arc lights for one to five years from July 1. W. C. Tracy, Chn. Bd. Trustees.

UTICA, N. Y.—Patrick J. McCaffrey has been awarded the contract by the Equitable Gas & Electric Co. for building a power house, to cost about $40,000.

CHATHAM, N. J.—This place has voted to issue $15,000 in bonds for an electric plant. F. H. Lum, Mayor; E. L. Phillips, Chn. Com.

EMPORIUM, PA.—Geo. Metzger, Jr., is reported to have been awarded the contract for a city electric plant.

READING, PA.—The People's Electric Light Co. proposes to begin at once the construction of a 20,000-HP. electric plant.

SHARPSBURG, PA.—Bids are asked until June 12 for installing machinery and lamps, etc., for the plant and for making other improvements. F. A. Simth, Chn. Com.

WATERFORD, PA.—This place will vote June 11 on the question of issuing $18,000 in bonds for an electric plant and water-works.

WILLIAMSPORT, PA.—Plans and specifications are being prepared for a new power plant for the Consolidated Electric Company; estimated cost, about $150,000.

YORK, PA.—Work on the proposed power plant at the Conewago Falls on the Susquehanna River at York Haven, 10 miles from here, will be begun June 1. Address Judge W. F. B. Stewart, York.

ELLICOTT CITY, MD.—N. H. Dorsey, of Baltimore, has completed plans for a power dam 240 ft. long on the Patapsco River at Gray's, one mile from here.

PORT DEPOSIT, MD.—Hermann Probst, of New York, has been awarded the contract, at about $25,000, for a power plant at the Jacob Tome Institute.

ROCKVILLE, MD.—The city electric plant and waterworks were recently damaged by fire at a loss of about $8,000.

SUFFOLK, VA.—Bids are asked until 8 p. m. June 1 for furnishing the town, public buildings, etc., with electric lights for 15 years from Jan. 1, 1902. W. V. McAnge, Chn. Com.

ROCKINGHAM, N. C.—Bids are asked until July 10 for the purchase of $20,000 6% 30-year bonds for an electric plant and school building. W. N. Everett, Chn. Com.

COLUMBUS, GA.—Reports state that the City Mills Co. will soon let the contract for constructing a $50,000 stone power dam to replace the present wooden one.

BIRMINGHAM, ALA.—The Consolidated By-Product Gas Co., recently incorporated, has offered to furnish this city with gas at 60 cts. a 1,000 cu. ft. E. N. Cullum and Caliwell Bradshaw are interested.

ELLISVILLE, MISS.—Bids will be asked by the Mayor until about June 20 for erecting an electric plant. Thos. V. Hall, Engr.

CHATTANOOGA, TENN.—F. P. Sweet, for the Triumph Electrical Co., of Cincinnati, O., has been awarded the contract for the county electric plant.

COLUMBUS, O.—Dr. Washington Gladden, of the city council, writes us that the council has authorized the issue of $110,000 of bonds for the completion of the electric plant. Address the Director of Public Improvements.

MOUNT VERNON, O.—Bids are asked until June 20 for lighting the streets. W. A. Hosack, Cy. Clk.

NORWOOD, O.—The Edison Electric Co., of Cincinnati, has asked for a franchise for an electric plant here.

ANDERSON, IND.—The loan committee has recommended that the electric plant and water-works be improved at a cost of about $125,000. Councilman Netterville, Chn. Com., and W. W. Leib may be addressed.

COLUMBUS, IND.—G. W. Caldwell, Mayor, writes us that the city will erect a building for the electric plant and water-works pumping plant.

ELWOOD, IND.—The Elwood Gas Co. proposes to extend its gas plant, at a cost of $25,000. W. G. Curtis, Mgr.

INDIANAPOLIS, IND.—The Home Heating & Lighting Co. has engaged J. F. Lewis, of Brazil, Ind., to prepare plans for extending its electric plant.

TERRE HAUTE, IND.—The L. B. Root Co. is reported as securing estimates for extending its electric plant.

READING, MICH.—We are informed that the following bids were received May 14 for an electric plant: Geo. S. Pierson, Engr., Kalamazoo, Mich.: The M. B. Wheeler Electric Co., Grand Rapids, Mich., complete alternating current plant, including 800 light transformer capacity, $5,900; complete direct current plant, Edison three-wire system, $5,800. C. L. Olds Construction Co., Ft. Wayne, Ind., complete alternating current plant, no transformers included, $5,875; complete plant, with Manhattan arc lamps and regulator, no transformers included, $5,995. W. G. Nagel & Co., Toledo, O., one 75-K-W. A. C. generator, $2,057; 25 A. C. arc lamps and transformers, $728; street circuits, $2,128. The F. Bissell Co., Toledo, O., one 65-K-W. generator, f. o. b., $1,231; arc lamps, each $19; street circuits, D. C., $4,042; street circuits, A. C., $2,838. Warren Electric Mfg. Co., Sandusky, O., one 60-K-W., A. C. generator, $1,240. General Electric Co., Chicago, one 60-K-W., A. C. generator, $1,450; one 65-K-W., D. C. generator, $1,150; two 30-K-W., D. C. generators, $1,415. Ridgeway Dynamo & Engine Co., Ft. Wayne, Ind., one 80-HP. automatic engine, $1,220. The Mansfield Machine Works, Mansfield, O., one 85-HP. automatic engine, $1,095. The bid of the M. B. Wheeler Co. for an alternating current plant was accepted. A Westinghouse generator will be used and the Manhattan series alternating current lamps, with regulator, will be used.

EVANSTON, ILL.—The Yaryan Heating & Lighting Co. has decided to extend its plant at a cost of about $100,000, according to reports.

WEBSTER, S. DAK.—Carl Mulenberg, Cy. Audr., writes us that it is intended to issue $26,000 of bonds for an electric plant and water-works.

PARIS, MO.—An election will be held June 3 to vote on the question of issuing $20,000 in bonds for works and an electric plant. T. G. Mitchell, Mayor.

ST. LOUIS, MO.—The board of public improvements has approved bills for an electric plant for the city hall, to cost $32,500, and for the Insane Asylum, to cost $14,000. It is also proposed to build an electric plant for the water-works, to cost $39,812.

DENISON, TEX.—The Denison Light & Power Co. has asked for a franchise.

LEADVILLE, COLO.—Gen. Irving Hale, 505 16th St., Denver, Colo., and L. C. Robinson, of the Leadville Electric Power Co., Leadville, and H. L. Rogers, of Boston, Mass., propose to build a power plant on Homestake Creek to furnish this place with electric power.

LAS VEGAS, N. MEX.—A company has been formed to build a street railway and additional electric plant. G. W. Baumhoff, Pres.

SANTA FE, N. MEX.—The Santa Fe Water & Light Co. has begun work on its proposed power plant, which will include a ditch one mile long, a pipe 1,100 ft. long and a reservoir. E. C. Chester, Engr.

RIMOUSKI, QUE.—We are informed that the new electric company, formed with a capital of $100,000, will spend $75,000 on an electric plant and water-works. Dr. J. F. Demers, Secy. and Treas., St. Octave of Metis, Que.

VICTORIA, B. C.—The council will at once ask for bids for a 60-arc light dynamo, a 1,000-incandescent light plant, etc.

SAULT STE. MARIE, ONT.—Bids are asked until July 1 for constructing a power canal, 2,500 ft. long, 150 ft. wide and 30 ft. deep, for the Lake Superior Power Co., as stated in our advertising columns. Albert S. Crane, Ch. Engr.

NEW COMPANIES.—Clinton Light & Water Co., Clinton, Mo.; $180,000; James M. Avery, Paul Tyler, J. T. Marsh.

The B. R. Electric Co., of Kansas City, Mo.; $40,000; T. M. Bernarum, E. R. Royer, J. E. Taylor.

Carthage Electric Light & Power Co., Carthage, N. Y.; $75,000; J. E. Strickland, Carthage; T. B. Baseelin, Croghan, N. Y.

Robinson Water, Light & Heat Co., Robinson, Ill.; $70,000; C. S. Jones, Frank Barnes, A. H. Bayston.

Reynolds Electric Co., Chicago, Ill.; $2,500; manufacturing electrical machinery, devices and supplies; Henry W. Prouty, Peter Anderson, Alvin L. McElroy.

National Electric, Gas, Water & Power Co., Clayton, Mo.; $2,000, paid up; F. W. Hoyt, Kirkwood, Mo.; Geo. A. Gable and F. D. Gildersleeve, St. Louis.

Electric and Steam Railway Supply Co., Lafayette, Ind.; $5,000; Francis W. Powers, Martin L. Snyder, Wm. W. Hoffman.

Royal Electric Light Co., Royal Center, Ind.; $40,000; Ernest B. Thomas, John J. Schmidt, Wm. H. Bingaman.

Canadian River Water Power Co., Spencer, Spencer county, Ind. Ter.; to develop about 250 HP. on the Canadian River; L. F. Kramer, of Oklahoma City, Okla.

Delaware River Electric Power Co., Easton, Pa.; $500,000; to develop 5,900 HP. on the Delaware River at Foulrift, between Phillipsburg and Belvidere; A. J. Cooper, Pres., New York; Wm. A. Selby, Secy., Buffalo; G. M. Steward, Scranton, Pa.

BRIDGES

HOLYOKE, MASS.—Bids are asked until June 7 for constructing a bridge over the second-level canal, Holyoke. Michael F. Walsh, Chn. Bd. Pub. Wks.

FAIRPORT, N. Y.—An election will be held on June 1 to vote on the proposition of building a new arched bridge over Irondequoit Creek on the Rochester road, two miles west of this place, at a cost of $3,000.

MALTA, N. Y.—The town board is considering the question of erecting a new bridge over the Mouringkill Creek, on the Malta Ave. road to Saratoga Lake.

NEW YORK, N. Y.—The council has voted to issue bonds to the amount of $9,000 in the interest of the proposed bridge at City Island.

SYRACUSE, N. Y.—The old Warren St. bridge over the Erie Canal will be replaced by a new three-girder steel bridge, 70 ft. long, costing approximately $6,000.

CONNEAUT, PA.—The county commissioners have granted a franchise for a toll bridge across the Conneaut River to W. C. Culberson, Girard, Pa., and R. B. Willis, of Erie.

DOYLESTOWN, PA.—A committee of citizens from Warrington has petitioned the county commissioners for a new bridge in that township.

PHILADELPHIA, PA.—Plans are reported to have been started for a steel bridge over the Schuylkill River at Passyunk Ave., to cost about $75,000.——It has been decided to build a new drawbridge over the Schuylkill near the Point Breeze oil refineries.——An ordinance will soon be introduced in the select council for the extension of Aramingo Ave. from its present terminus to the intersection of Bridge St. and the State road. The ordinance will provide for a bridge over Franklin Creek.

PITTSBURG, PA.—Plans are being completed by John Brunner, Supt. Bureau of Engineers and Conductors, for a new bridge at Lincoln Ave., to cost about $180,000. The work on the new structure will be started this season. It is said that the contract will be let within a month.

WILKESBARRE, PA.—Bids are asked until June 1 for building six iron bridges, costing about $2,900, and 49 stone arches, costing about $15,000, in various parts of the county. Joseph D. Lloyd, County Controller.

BALTIMORE, MD.—The Structural Iron & Steel Co. has been awarded a contract for erecting the overhead passenger bridge to be erected by the Baltimore, Chesapeake & Atlantic Ry. over Light St.

WASHINGTON, D. C.—Surveys, test drills and test piling are in progress in the connection with the new highway bridge across the Potomac, to replace the Long Bridge. The sum of $600,000 is now available for the work.

CHARLOTTE, N. C.—The township has under consideration the proposition of building two or more arches of about 60 ft. span. D. P. Hutchinson, North Tryon St., may be addressed.

COLUMBUS, GA.—A committee has been appointed to investigate the probable cost of building a steel bridge over the Chattahoochee River, and will report to the council at its next meeting.——The council is considering the matter of erecting a new steel bridge across the river to replace the present wooden structure.

COLUMBUS, MISS.—Bids are asked until June 3 for building a bridge over Yellow Creek on Fayette road. E. S. Moore, Clk.

KNOXVILLE, TENN.—Reports state that a number of bridges in Mincol and Washington counties have been destroyed by high water.

CANTON, O.—The county commissioners have decided that it is necessary to erect a stone arch bridge across the Nimishillier Creek, near the Gramham Mill. The structure will cost about $2,794.

DELPHOS, O.—The canal bridge at Third St. is reported to have been condemned by the state officials, and it is likely that plans will be drawn soon for a new lift bridge.

PAULDING, O.—Bids are wanted by the county commissioners until June 7 for building five bridges, ranging from 100 to 304 ft. in length. Allen Bybee, County Audr.

ST. PARIS, O.—The county commissioners are considering a site for a new bridge near here, to be of steel and 35 ft. in length.

TOLEDO, O.—The council committee on harbor, commerce and bridges has ordered bids advertised for repairs to the Lafayette St. bridge, to cost $6,400.

INDIANAPOLIS, IND.—Bids are wanted by the county commissioners until June 13 for constructing a bridge over Fishback Creek, near Traders Point, in Pike township. Harry B. Smith, County Audr.

WABASH, IND.—The county commissioners have awarded contracts as follows for bridge construction: American Bridge Co., one bridge; Attica Bridge Co., one bridge, and the Wabash Bridge & Iron Works, two bridges.

CHICAGO, ILL.—The roads and bridges committee of the county board will recommend the construction of the following bridges, the expense to be borne evenly by the county and townships: Across the Calumet River, near Blue Island, to cost $11,000; over the Little Calumet, at 147th St., to cost $18,000; across Poplar Creek, near Elgin, to cost $1,400; across Thorn Creek, near Glenwood, to cost $2,500.——The board of local improvements has again taken under consideration the proposition of connecting the North and South Boulevard systems by a viaduct.

HARVARD, ILL.—It is reported that an iron bridge will be built over the Kishwaukee River, north of Marengo, to cost about $2,500.

JANESVILLE, WIS.—The county board building committee has decided to visit Newville to investigate the necessity of erecting a bridge across Rock River. The bridge will be about 460 ft. long.

WAUSAUKEE, WIS.—The Wisconsin Bridge & Iron Co., of Milwaukee, has been awarded the contract for building a steel bridge, 110 ft. long and 16 ft. wide, to cost $2,000.

CHEYENNE, WYO.—Bids are asked until June 14 for building a bridge across the Laramie River at Fort Laramie. Dallas R. Cowhick, County Clk. W. D. Pease, County Engr., informs us that there will probably be another bridge built over the Sybille River.

LAMPASSAS, TEX.—It is reported that the commissioners court wants estimates on the cost of two bridges of not less than 250-ft span across the Colorado River. W. H. Webber should be addressed.

DENVER, COLO.—Bids are asked until May 31 for erecting either a concrete or steel bridge across the South Platte River on county road No. 91, near Brighton, to be 300 ft., in two spans of 150 ft. each. Julius Sichele, County Clk.

NEW WHATCOM, WASH.—Bids are asked until June 4 for constructing two bridges and one culvert on county road No. 171, according to reports. W. R. Sybert, Clk.

TACOMA, WASH.—The council has voted to build the Proctor St. bridge. It will be of wood, and will cost about $5,797, according to the estimate of the city engineer.

ST. THOMAS, ONT.—Bids are asked until May 31 for building the concrete abutments to the Wilson viaduct, and until June 3 for one abutment and two pedestals for the south approach to the Graham Road bridge over the Thames River, and two concrete abutments for the bridge over Catfish Creek. Jas. A. Bell, County Engr.

BUILDINGS.

BRUNSWICK, ME.—D. D. Willcutt, Boston, Mass., has been awarded the contract for building the new Hubbard Library at Brunswick, costing about $25,000.

DURHAM, N. H.—Chas. S. Murkland, Pres. New Hampshire College, writes that the plans for the new agricultural building on the college grounds are not yet completed.

NEWPORT, R. I.—Bids are asked until June 4 for erecting a natatorium building at the naval training station at Newport. A. S. Kenny, Paymaster-General, U. S. N., Navy Dept., Washington, D. C.

BOSTON, MASS.—Bids are asked until June 22 for constructing a steel roof and two gallery floors, with an electric traveling bridge crane of 40 tons capacity, at the Navy Yard. Estimated cost, $60,000. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington.

WEST SPRINGFIELD, MASS.—Bids are wanted by the building committee until June 3 for erecting a brick addition to the town hall, to be 55 × 60 ft.

NEW HAVEN, CONN.—L. W. Robinson, Arch., 324 Exchange Bldg., informs us that the contract for the new chemical building for Yale University has been let to Sperry & Treat. The building will be five stories, 65 × 91 ft., fireproof, and will cost $80,000. It will be supplied with direct and indirect steam heating and ventilating apparatus and electric and gas lighting.

BROOKLYN, N. Y.—Requisition has been made to the board of estimate for an additional appropriation of about $1,700,000 for school sites and buildings in Brooklyn.——The following bids were received by the building committee of the central board of education on May 20 for the erection of the Public School No. 132, in Manhattan Ave., between Metropolitan Ave. and Conselyea St. It will be three stories and will have 20 rooms: Rutan & Hennington, $102,157; F. J. Kelly & Son, $102,701; Peter Cleary, $102,600; Wm. & Thomas Lamb, $104,100; Alfred Nugent & Son, 104,000; K. A. Murphy, $107,500; R. H. Hood & Co., $112,490; Cunningham & Hearns, $111,000; H. M. Weed & Co., $104,486; Luke A. Burke, $106,725; John H. Goetchus, $109,900; William P. McGarry, $110,987; John Thatcher & Son, $108,000; Thomas Cockerell & Son, $140,000.——The main building of the Long Island College Hospital will soon be replaced by a new structure, to cost about $175,000, of which $120,000 has been contributed. H. W. Maxwell has subscribed $50,000 and other subscriptions are expected. Julian D. Fairchild, Treas.

BUFFALO, N. Y.—Plans for a factory building for A. J. Benzing, Pres. Buffalo, East Aurora & Hamburg R. R., have been prepared. The building will be 216 × 60 ft., and will be used by the Buffalo Lounge Co.

GOVERNOR'S ISLAND, N. Y. H.—Bids are asked until June 10 for erecting three sets of officers' quarters at Fort H. G. Wright, Fishers Island, N. Y. Jas. M. Moore, Asst. Q. M.-Gen.

NEW YORK, N. Y.—Plans have been filed by Henry L. Einstein, 44 West 53d St., for a 5-story brick office building at 9, 11 and 13 Spruce St.; estimated cost, $100,000; Arnold W. Brunner, Arch., 33 Union Square; by John G. and James M. Brady, 248 West 105th St., for a 2-story brick and iron store and office building at 79th St. and Columbus Ave.; estimated cost, $50,000; H. O. Haddick, Arch., 57 West 24th St.; by Mary C. Jacobus, 209 West 55th St., for alterations to a 3-story stable at 17 Jones St.; A. B. Foano, Arch.; estimated cost, $30,000; by Theresa Avitabile, 313 East 109th St., for two 5-story brick flats at 233-5 East 113th St., to be 25 × 25 × 61 ft.; estimated cost, $50,000; Geo. F. Pelham, Arch., 503 Fifth Ave.; by Nellie Flake, 31 Nassau St., for a 4-story brick hotel, 40 × 100 ft., at 38th St. and Eighth Ave., Grand Circle; estimated cost, $200,000; J. H. Duncan, Arch., 21 West 24th St.; by Albert Flake, 31 Nassau St., for a 1-story brick theatre, 120 × 100 ft., Grand Circle, to cost about $250,000; John H. Duncan, Arch.; by James E. Brown, 669 Eagle Ave., for seven 3-story brick dwellings, 19 × 20 × 50 ft., on 164th St., to cost $52,500; W. C. Dickerson, Arch.; by Sarah J. Robbins, 127 East 35th St., for a 4 and 5-story brick dwelling, 33 × 74 ft., at 33 and 35 East 74th St., to cost $33,000; Grosvenor Atterbury, Arch., 18 West 34th St.; by Chas. W. Ogden, 30 West 20th St., for a 5-story brick dwelling, 27 × 87 ft., in 79th St., to cost $75,000; Little & Brown, Archs., 70 Kilby St., Boston, Mass.; by Mary F. Ogden, 30 West 20th St., for a 5-story brick dwelling in 79th St., 28 × 87 ft., costing about $75,000; Little & Brown, Archs.

NEW YORK, N. Y.—Plans have been filed by John H. Leith, 135 W. 136th St., for a 9-story brick hotel, 37 × 89 ft., on Broadway, to cost $150,000; Neville & Bagge, Archs., 217 West 125th St.; by American Female Guardian Society and Home for the Friendless, 30 East 30th St., for a 4-story brick and stone house on Woodycrest Ave., 127 × 114 ft., to cost $135,000; Wm. B. Tuthill, Arch., 287 Fourth Ave.; by John L. Miller, for a 7-story brick stable on Broadway, near 76th St., 98 × 111 ft., costing about $58,000; Julius Munckwitz, Arch., 247 West 125th St.; by Ogden Mills, 2 East 69th St., for alterations to the 4-story brick dwelling on Fifth Ave., southeast corner of 69th St., costing about $40,000; Horace Trumbauer, Arch., Land Title Bldg., Philadelphia; by Patrick Gaffney, 626 West 146th St., for a 5-story brick stable, 50 × 100 ft., on 147th St., West, to cost about $30,000; John P. Leo, Arch., 143 West 125th St.

NEW YORK, N. Y.—Bids are wanted by the department of parks, Arsenal, Central Park, until June 13 for contract No. 2, for the New York Public Library, Astor, Lenox and Tilden Foundations, at Fifth Ave., 40th and 42d Sts.——The Ancient Order of Hibernians have purchased a site on Fifth Ave. and 116th St. for a new clubhouse, to cost about $250,000. The structure will be 100 × 110 ft., and work will soon be started. Plans will be prepared at once.——Plans have been completed for the reconstruction of the old Ice Palace at Lexington Ave. and 107th St., into a theatre, costing about $150,000. The theatre will contain an orchestra, balcony and gallery, and will be 100 × 217 ft. Samuel Cohen, Arch.——The Manhattan Life Insurance Co. has purchased the property at 70 Broadway, and will erect thereon a 16-story addition to its own building, at 66 Broadway. Henry B. Stokes, Pres.——The contracts for the store and lofts for H. Frisdrich, at 16 and 18 Hoyt St., Brooklyn, have been awarded as follows: Geo. M. Walgrove, Arch, 42 East 23d St.; mason work, Thos. Dunlen, Brooklyn; carpenter work, John Carl, New York; iron work, Myers & Anselm, Brooklyn.

POUGHKEEPSIE, N. Y.—Bids are asked until June 3 for alterations and additions to the hospital building of Vassar Brothers' Hospital. Benj. M. Fowler, Secy., 56 Market St.

ATLANTIC CITY, N. J.—The Bell-Dickerson Co. has been organized here to build a department store. It will be a 6-story iron and stone and brick structure, 275 × 150 ft. Chas. Evans, Pres. Atlantic City National Bank, is President of the new company.

ATLANTIC CITY, N. J.—Bids are wanted by the council until June 3 for erecting a new city fire house. Hudson Vaughn, Arch., Real Estate and Law Bldg.

NEWARK, N. J.—Local papers state that the Young Men's Christian Association building, in Clinton St., will be replaced by an 8-story office building, work to begin on March 1 next.

PATERSON, N. J.—Quackenbush & Co. will erect a new department store on property recently acquired, 27 × 100 ft., adjoining their present store. Plans are not fully matured.

TRENTON, N. J.—The Mercer county court house commission has relieved John Barlow of the contract for the new court house and has awarded it to Lewis Lawton, the next lowest bidder, at $177,000. Mr. Barlow's bid was $145,000, but did not include $28,769 for carpenter work by James W. Lanning, one of the sub-contractors.

ALLEGHENY, PA.—Plans for a 9-story brick apartment house, 116 × 83 ft., containing 200 rooms, in this city, have been prepared by J. P. Bailey, Arch., 331 Sixth Ave., Pittsburg. Estimated cost, $250,000.

BEAVER FALLS, PA.—It is stated that the contract for the new Carnegie Library here will be let to W. J. Shanor, at about $40,000.

BLAIRSVILLE, PA.—The contract for the new round house at Youngwood has been let to Kennedy & Fair, of this place, at $50,000.

McKEESPORT, PA.—A new $40,000 school house will be erected in the 10th Ward. W. F. Wilson, Arch., Gester Bldg., has been selected to prepare plans.

PHILADELPHIA, PA.—Bids are asked until June 19 for installing an electric light wiring system in the U. S. court house and postoffice in this city. H. S. Taylor, Asst. Secy., Treasury Dept., Washington, D. C.——The following bids were received by the Treasury Department, Washington, D. C., on May 23 for the renovation of the plumbing and drainage system, etc., in the U. S. postoffice and court house: John Joyce, Philadelphia, $75,000, 11 months; D. R. Burns, Philadelphia, $80,000, 180 days; G. F. Uber Co., Philadelphia, $79,800; S. Faith & Co., Philadelphia, $72,450, 10 months; James Nolan & Sons, Washington, $77,999, 365 days; Richardson & Burgess, Washington, $80,000, 15 months.——Plans will be prepared by Otto C. Wolf, Arch., 1345 Arch St., for a 6-story office building to take the place of the building which recently collapsed at No. 18 South Broad St. It will cost about $75,000 and will be provided with elevators, steam heating and electric lighting.——A permit has been granted to Arthur H. Williams' Sons to build a warehouse for Gordon Chambers, Reading Terminal, at Port Richmond, to cost about $80,000. It will be six stories, of granite and brick, 76 × 150 ft. G. W. Cook, Arch.——It is stated that bids will soon be asked for building a 7-story addition to the paper box factory of Wm. Datz & Bros., at 237 North Sixth St., to be 25 × 100 ft.——Plans are being prepared by M. H. & C. S. Dickinson, Archs., for a 5-story fireproof apartment house, to cost about $50,000.——Doyle Doah, 1509 Sansom St., has received a contract for an office building at Ninth St. and Penn Ave., Pittsburg, for the Westinghouse Electric Co., to cost about $200,000. The building will be ten stories and fireproof.——The members of the University Branch of the Y. M. C. A. have started a movement to erect a permanent building for the University Settlement, to cost about $40,000. J. McCracken is President, College Y. M. C. A.

PITTSBURG, PA.—The Duquesne Club is said to be considering the question of erecting a new clubhouse, at a cost of $500,000.——Plans have been prepared by Craig, Hodgens & Burns, Archs., Bissell Block, for an 18-story building at Fourth Ave. and Cherry Alley, to be built by Leopold Vilsack, at an estimated cost of $640,000. Work is to be started about April 1 next.——A permit has been issued to A. W. Mellon for a 7-story brick warehouse at Ross St. and Third Ave., to cost $42,000.

FREDERICK, MD.—Plans have been prepared for a new Masonic Temple building in Frederick, to be 50 × 125 ft., costing $50,000. J. W. L. Carty, Secy. Masonic Temple Association.

WASHINGTON, D. C.—C. C. Willards intends shortly to erect a 6-story addition to the Hooe Building, on F St., between 13th and 14th Sts. A large part of this building, which is an iron structure, is used as the headquarters for the Geological Survey.——The work of demolishing the St. Vincent Asylum building, G St., between 9th and 10th Sts., has begun. It is the intention of Messrs. Woodward and Lothrop to erect a $500,000 building on the site as an addition to their present store. It will be 100 × 200 ft.——N. T. Haller, Arch., has prepared plans for 30 houses to be erected by M. T. Cockey at Kentucky Ave. and E St., S. E.

ALEXANDRIA, VA.—Bids are asked until June 8 for erecting two sets of officers' quarters at Fort Washington, Md., and until June 10 for installing a hot water heating system in the hospital at Fort Hunt, Va. Abe S. Bickham, Capt. and Q. M.

RICHMOND, VA.—The Stewart Iron Works, of Cincinnati, O., will soon start work on the new jail in this city, for which $68,500 was recently appropriated.

PARKERSBURG, W. VA.—Plans have been prepared for a new theatre to be built on Market St., about Seventh, at a cost of $100,000. It will be 70 × 100 ft., and will have a seating capacity of 1,600 persons.

ASHEVILLE, N. C.—An election will be held on June 18 to vote on the proposition of issuing $50,000 in bonds for erecting a court house.

ATLANTA, GA.—A contract has been let to Grant Wilkins for erecting a 6-story building for Eiseman Bros. on Whitehall St., to cost about $60,000.

BRUNSWICK, GA.—A contract has been let to W. H. Bowen, of this city, for erecting an addition to the Jekyl Island Clubhouse, to cost about $90,000.

JACKSONVILLE, FLA.—E. C. Long, Vice-Pres. Atlantic, Valdosta & Western Ry., informs us that the company will rebuild freight terminal buildings, bulkheads and docks. Several blocks of brick and iron business houses will also be rebuilt.——The Roman Catholic denomination have decided to rebuild a parish hall at once.

TALLAHASSEE, FLA.—The senate has voted an appropriation of $100,000 for improvements to the capitol building.

NEW ORLEANS, LA.—Bids are asked until about July 1 for building a jail building, consisting of three buildings, one 542 × 133 ft. and two 37×92 ft., costing about $85,000. The City Engineer, who is also architect, informs us that the buildings will have brick walls, steel floors, pile, concrete and brick foundation, hot water heating and electric lighting. The machinery equipment will be let by separate contract.

SHREVEPORT, LA.—The contract for a 5-story brick fireproof building for the First National Bank has been let to Saunenfield & Emmets, of New Orleans, at $100,000.

GALLATIN, TENN.—Reports state that the Louisville & Nashville R. R. has completed plans for a new depot in this place. Geo. E. Evans, Gen. Mgr., Louisville, Ky.

KNOXVILLE, TENN.—A new 7-story office building, 100 × 135 ft., will be erected at Church and Prince Sts. by Dr. C. Deaderick and E. J. Sanford, at a cost of $75,000. Contracts will be let at once.

NASHVILLE, TENN.—J. E. R. Carpenter, Columbia Bldg., Norfolk, Va., has completed plans for the new building of the Southern Methodist Publishing House to be erected in Broad St., at a cost of $150,000. It will be five stories, brick, stone and terra cotta, with elevator and modern equipment.

LAFAYETTE, TENN.—Bids are asked until June 3 for erecting a brick court house for Macon county. J. W. Brown, Chn. Bldg. Com.

COLUMBUS, O.—Geo. T. Spahr has taken out a permit for the 10-story Olentanger building, to be erected on East Broad St., adjoining the Board of Trade Building. The structure will be of brick and steel, and will cost $50,000.

HAMILTON, O.—The Soldiers', Sailors' & Pioneers' Permanent Monument Association has decided to erect a combination memorial hall and monument at Monument Place, to cost about $100,000.

LORAIN, O.—An election will be held on June 6 to vote on the question of issuing $55,000 in school house bonds.

TERRE HAUTE, IND.—Plans have been prepared for the buildings for the Collett Orphan's Home, to be completed this fall.

VINCENNES, IND.—The plans prepared by J. W. Gaddis, Arch., of this place, for the new jail and jailor's residence for Knox county, have been accepted by the county commissioners. The buildings will cost $35,000.

DETROIT, MICH.—The board of regents have adopted the plans of Spier & Rohus, Archs., 521 Chamber of Commerce Bldg., for the new medical college of the University of Michigan. The building will be 144 × 175 ft., three stories high, and will cost about $100,000. It will have blower system of ventilation, steam heat and will be lighted by electricity.

ESCANABA, MICH.—Bonds to the amount of $20,000 have been sold, the proceeds of which will be used for the construction of a jail, according to reports.

GRAND HAVEN, MICH.—The board of education has decided to erect a 2-story brick school building, containing 25 rooms. Williamson & Crow, Archs., Grand Rapids, will prepare plans. Estimated cost, $40,000.

PONTIAC, MICH.—Bids are asked until June 10 for erecting two 8-room school buildings in this city. Harry H. Snowdon, Secy. Bd. Education.

CHICAGO, ILL.—A building permit has been issued to Telford & McWade for two 3-story brick apartment houses, costing about $50,000.——The plans for the new station for the Lake Shore & Michigan Southern and the Chicago, Rock Island & Pacific Railways at 31st St., have been prepared by Frost & Granger, Archs., The Temple. The building will be six stories, 103 × 53 ft., and will be equipped with facilities for passenger and freight traffic. The architects have called for figures on the building; estimated cost, $1,000,000.——A contract is reported to have been let to Geo. B. Swift & Co. for building a $400,000 grain elevator at New Orleans for the Illinois Central R. R., to have a capacity of 1,500,000 bushels.——Plans are being prepared by Chas. F. Sorensen, Arch., 648 N. Claremont Ave., for a $45,000 apartment house at Rush St., near Goethe, for P. Crown. It will be four stories, 100 × 90 ft., containing eight apartments of 16 rooms each. Mr. Sorenson has plans also for a 3-story apartment house on Jackson Boulevard, near South 42d Ave., to cost $30,000.——Plans are being prepared by Jarvis Hunt, Arch., Monadnock Bldg., for a $90,000 cold-storage warehouse for the Western Cold Storage Co., to be 100 × 100 ft., of steel and brick.——An 8-story private hotel and sanitarium in Michigan Ave. is proposed. It will cost about $400,000. Drs. J. B. Murphy, Frank Billings and Franklin H. Martin are interested.——It is said that Mrs. Josephine C. Drake proposes to erect a memorial hall costing about $40,000, to the memory of John B. Drake.——Plans have been prepared by Wetmore Alloway, Arch., Marquette Bldg., for a 3-story flat building, 93 × 68 ft., at 5739-45 Calumet Ave., to cost about $60,000; by Henry L. Newhouse, Arch., 4636 Prairie Ave., for a 3-story flat, 64 × 162 ft., at 5402-4 Prairie Ave., for Philip Augsten, to cost $55,000; by Robert S. Smith, Arch., 187 Dearborn St., for a 3-story apartment house in Michigan Ave., near 51st St. Boulevard, for Mrs. Leonard J. Eastland, to cost $40,000; by Fuller & Stevens, Archs., for a 4-story apartment, 50 × 100 ft., at Washington Ave. and 54th St., to cost $50,000. The same architects have plans on the boards for a 24-flat building, to cost $60,000; by Fred. Foehringer, Arch., 164 Randolph St., for a 3-story store and flat, 50 × 125 ft., to be erected on Lincoln Ave. by Gainer & Koehler, at a cost of $30,000; by Chas. W. Van Keuran, Arch., 119 La Salle St., for a 4-story apartment for James Heckman, at Washington Ave. and 624 St., costing about $90,000; by Clinton J. Warren, Arch., 134 Monroe St., for a $500,000 hotel at French Lick Springs, to be erected before Feb. 1, next; also for a $30,000 fireproof bank building to be erected at Waukesha, Wis., and for new banquet rooms at Milwaukee.

MONMOUTH, ILL.—Bids are asked until June 20 for installing an electric wiring system for the post office in this place. J. K. Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

MACOMB, ILL.—Bids are asked until June 1 for constructing a power house, chimney, stack and pipe tunnel and for the installation of a heating and ventilating apparatus in connection with a school building in this city. C. J. Searle, Pres. Bd. Trustees, Western Illinois State Normal School, Great Northern Hotel, Chicago.

ROCK ISLAND, ILL.—Bids are asked until June 4 for erecting a new high school building, to cost about $75,000. F. Borgelle, Arch.; R. S. Dart, Secy. School Board.

OSHKOSH, WIS.—Bids are wanted by the buildings and grounds committee of the board of education until June 5 for competitive plans and specifications for a high school building on Algena St., to seat 500 pupils.

FORT DODGE, IA.—Bids are wanted by the building committee until June 12 for erecting a library building in this city. H. C. Koch & Co., Archs., Milwaukee.

OTTUMWA, IA.—The following bids have been received for erecting the new Carnegie library in this city: Bartlett & Kling, Ohio $39,463, Le Grand $40,063, Bedford $37,663; Capital City Brick & Pipe Co., Ohio $43,168, Le Grand $41,680; J. H. Killmar, Ohio $42,985, Le Grand $41,197; Garthwait & Co., Ohio $49,877, Le Grand $48,900, Bedford $46,474.

BLUE EARTH CITY, MINN.—The contract for the erection of a new high school in this city, to cost about $30,000, has been let to Orff & Guilbert, of Minneapolis.

MANKATO, MINN.—The library board has sent the five best plans for the Carnegie library building in this place to the Librarian of the Carnegie Library at Pittsburg for his selection. The building will cost $40,000.

EMPORIA, KAN.—Bids are asked until June 7 for erecting an 8-room school building on the site of the present Union St. school. Mea N. Clark, Clk. Bd. of Education.

GARNETT, KAN.—Bids are asked until June 17 for erecting the Anderson county courthouse at this place. T. W. Parrot, Chn. County Comrs.; Geo. P. Washburn, Arch., 413 South Main St., Ottawa, Kan.

GRAND FORKS, N. DAK.—Plans are being prepared by Chas. S. Sedgwick, Arch., 1027 Lumber Exchange, Minneapolis, for a new science hall at the state university, to be four stories, 100 × 50 ft., costing about $30,000.

CENTRALIA, MO.—A vote will be taken on June 11 on the proposition of building a new city hall.

KANSAS CITY, MO.—Plans have been filed by Bernard Corrigan for two additional stories to the Baltimore Hotel, to cost about $40,000.

ST. LOUIS, MO.—Bids are asked until June 5 for building 12 brick school buildings, and electric light, steam-heat and water and sewer systems. H. C. Tomrer, Act. Comr., Office of Indian Affairs, Washington, D. C.

LITTLE ROCK, ARK.—The state board of Charitable Institutions has selected Frank W. Gibb, Arch., to prepare the plans for the new deaf mute institute, to cost about $80,000.

DENTON, TEX.—The commissioners court on May 16 authorized the issuance of $68,000 in bonds, the proceeds of which will be used for the erection of a courthouse.

GALVESTON, TEX.—Bids are asked until June 15 for reconstructing and repairing the medical college and university hall. T. S. Henderson, Chn. Bd. Regents; Geo. B. Stowe, Arch.

OZONA, TEX.—Bids are asked until June 10 for erecting a new county courthouse. Chas. E. Davidson, County Judge; Oscar Ruffini, Arch., San Angelo.

GUTHRIE, OKLA. TER.—An election will be held on June 4 for the purpose of voting on the proposition of issuing $155,000 in bonds, of which $35,000 will be used for the construction of an additional school building.

BREMERTON, WASH.—Bids are asked until June 29 for constructing a brick and steel building, 43 × 50 ft., at the Naval Station. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington.

FORT STEILACOOM, WASH.—Bids are asked until June 8, according to reports, for a new wing to Western Washington Hospital for Insane here, to cost about $40,000. Proctor & Farrell, Archs., Tacoma.

SEATTLE, WASH.—Bids are wanted by Saunders & Lawton, Archs., 733 N. Y. Block, until June 15 for the steel construction and fireproofing in the 8-story building to be erected by the Moore Investment Co. in this city, to be 108 × 120 ft., at a cost of $250,000. The architects inform us that the contracts for excavation have been let. The building will be equipped with electric wiring and hydraulic elevators.

SPOKANE, WASH.—Plans are reported to have been completed by E. W. Houghton, Arch., Bailey Bldg., Seattle, for a new theatre, to cost about $50,000.

LOS ANGELES, CAL.—A building permit has been issued to Fred. H. Rindge and the Conservative Life Insurance Co. for a 6-story brick and terra cotta office building at the corner of Hill and Third Sts., costing about $100,000.

SAN FRANCISCO, CAL.—Bids are asked until June 6 for constructing one single and two double sets of framed officers' quarters at the U. S. A. General Hospital, Presidio, including the plumbing and electric wiring. J. M. Marshall, Asst. Q. M. Gen.——Hemenway & Miller, Archs., informs us that the contracts for the 5-story warehouse for A. Aronson have been awarded as follows: Concrete, Geo. Goodman; brick and terra cotta, James Wilson; cast iron, Vulcan Iron Works; steel, Milliken Bros., New York; carpentry, Thos. Day's Sons. All bidders of San Francisco, excepting Milliken Bros.

SAN JOSE, CAL.—C. M. Barker, Cy. Engr., informs us that nothing has been done as yet toward building the library offered by Andrew Carnegie.

STOCKTON, CAL.—Bids are asked until June 28 for the purchase of $150,000 in bonds for the Stockton high school. Otto Grunsky, Clk. Bd. County Supervisors. The plans for this building will be started as soon as the bonds are sold.

SALT LAKE CITY, UTAH.—H. H. Mahler, Arch., is preparing plans for the new addition to the Agricultural College Building, which will cost about $40,000. Work will soon be started.

TORONTO, ONT.—Bids are asked until June 1 for erecting the manufacturers', or main building, the art gallery and the dairy building on the Toronto Exhibition Grounds. O. A. Howland, Mayor.

WATER-WORKS.

AUBURN, ME.—H. E. Bisbee, Supt., writes us that no connection has as yet been made with the Lewiston pipe line from the lake. About 200 tons of 16-in. pipe will be wanted.

FARMINGTON, ME.—A committee has been appointed to fix a value for the sale of the works of the Farmington Water Co. to the city.

LUBEC, ME.—This village has voted to build works, the water supply to be secured from a spring about two miles distant.

ISLAND POND, VT.—Plans for a new reservoir and larger pipe line are being prepared.

DALTON, MASS.—Homer H. Bicknell, Clk., writes us that no arrangements have yet been made for extending the works, and may not be for some time.

NORTHAMPTON, MASS.—Bids are asked until June 7 for extending the works, to include 60,000 yds. of earthwork, 15,000 yds. of rock excavation, 1,000 yds. of masonry, 6,000 yds. of concrete, 7,500 yds. of rip-rap, 31,000 ft. of 20-in. pipe and 80 acres of clearing and grubbing. E. C. & E. E. Davis, Engrs., Northampton.

NORTON, MASS.—C. T. Oldfield, Chn. Selectmen, writes us that the act for new works recently passed by the legislature has not yet been accepted by the town. Pop., 1,826. Wm. H. Cuther, Engr., Attleboro, Mass.; A. W. Wild, Chn. Com.

EAST RANDOLPH, N. Y.—The Village President writes us that Gurt Burland, of Jamestown, N. Y., has been awarded the contract for extending the works. J. F. Witmer, Engr., Buffalo, N. Y.

GLENS FALLS, N. Y.—The village trustees are securing water rights for an increased water supply. A. J. Cheritree, Chn. Com.

HORNELLSVILLE, N. Y.—Mayor Nelson has vetoed the resolution authorizing the issue of $175,000 in bonds for municipal works.

NEWBURG, N. Y.—Curtis Stanton, Supt., writes us that this city will vote June 18 on the question of new works, the new water supply to be secured from Plattkill Creek.

NEW YORK, N. Y.—The board of estimate has approved the application of the department of water supply for an appropriation of $320,000 for water purposes in the 32d Ward. Of this amount $200,000 is for land and $120,000 for wells and pumps. Deputy Commissioner Moffett of the department of water supply is urging the appropriation of $500,000 for new pipe lines.

OSWEGO, N. Y.—The Oswego Water-Works Co. has offered a proposition for a new contract for furnishing the city with water. The citizens seem to oppose the municipal ownership of the works.

ROME, N. Y.—Mayor Caswell writes us that this city has voted to build works to cost about $152,000, but beyond this nothing further has been done.

SAVONA, N. Y.—J. M. Carpenter writes us that nothing definite has been decided in regard to works, a franchise for which he has asked.

SUFFERN, N. Y.—The village board has voted $2,000 to complete the works.

WALCOTT, N. Y.—Geo. H. Horton writes us that no steps have yet been taken towards receiving plans, appropriating money, etc., for the proposed works. Pop., 1,500.

WATKINS, N. Y.—This place has voted $20,000 in bonds for extending the works. C. M. Underwood, Secy., writes us that the commissioners will ask for bids about June 30. There will be a pump, two reservoirs, pipe, etc.

ALLIANCE, PA.—The Alliance Water Co. has been formed by Chas. R. Horn, W. W. McKee and Hopkin Thomas, of Catasauqua, Pa., to build works.

MEADVILLE, PA.—Wm. B. Fuller, of Hering & Fuller, 100 William St., New York, has been engaged to report on sources for a new water supply.

YARDLEY, PA.—We are informed that nothing has yet been done in regard to works, but action will probably be taken at the coming council meeting.

SEAFORD, DEL.—Work will begin in June on the proposed works.

LEWES, DEL.—We are informed that plans and specifications for works, sewerage system and electric plant are being prepared by T. Chalkley Hatton, of Wilmington, Del.

WASHINGTON, D. C.—The commission appointed to draw up plans for the filtration plant has purchased property immediately east of the Howard University reservoir. The estimates called for an expenditure of about $2,200,000.

NORFOLK, VA.—The Atlantic Light & Water Co. has been incorporated with a capital of $25,000 to build works, a sewerage system, electric plant, etc. T. R. Heller, Pres.; D. B. Saxton, Vice-Pres., Philadelphia, Pa.

STAUNTON, VA.—This place has voted to issue $200,000 in bonds for gravity works.

WILLIAMSBURG, VA.—This place has defeated the proposition to issue $30,000 in bonds for works.

ASHPOLE, N. C.—The question of issuing bonds for works and an electric plant is being considered. Pop., 600. Dr. J. P. Brown, Mayor.

ASHEVILLE, N. C.—B. M. Lee, Civil Engr., writes us that the legislature has authorized the city to call an election to vote on the question of issuing $200,000 in bonds for works. A preliminary survey has been made.

WILMINGTON, N. C.—A. M. Waddell, Mayor, writes us that the following bids were received May 20 for water mains, hydrants, etc., for the 5th Ward: Wm. McLean & Co., formerly of Philadelphia, now of Wilmington, with offices in the Smith Bldg., $4,975 (accepted); R. H. Grant, Wilmington, $5,350; W. F. Robertson, Supt. Clarendon Water-Works Co., $5,375; E. G. Parmele, Wilmington, $5,655.

FLORENCE, S. C.—This place will vote June 4 on the question of issuing $40,000 in bonds for works.

WALHALLA, S. C.—J. W. Shelor has been granted a franchise for works and an electric plant, according to reports, the town to pay $400 a year for 10 hydrants. J. V. Stribling, Engr.

NORTH AUGUSTA, GA.—Hollihan & Costello have secured the contract for laying 11,000 ft. of water pipe, etc.

MONTGOMERY, ALA.—The county commissioners propose to build works for the courthouse and jail to cost $3,000.

FAYETTE, MISS.—The question of works to cost $10,000 is being considered.

HATTIESBURG, MISS.—An election will be held June 4 to vote on the question of works to cost $30,000. A. Fairley, Clk.

TULLAHOMA, TENN.—This place will vote June 6 on the question of issuing $75,000 in bonds for works and sewers.

LEITCHFIELD, KY.—The Leitchfield Ice & Water Co. has been incorporated with a capital of $10,000: W. L. Thomas, Pres.; J. W. Moorman, Secy. and Treas.

LOUISVILLE, KY.—The Louisville Water Co. has let the contract for two concrete filter and coagulant houses to the National Roofing & Supply Co., of Louisville, at $38,000.

ROCHESTER, KY.—Reports state that estimates are wanted for works. J. D. Baugh, Clk.; M. F. Hays, Engr.

MARION, O.—E. H. Cowan, Supt., writes us that 200 Crown meters have been purchased. No steps towards any further improvements have yet been taken.

NEW MATAMORAS, O.—Bids are asked until June 22 for constructing works. Pop., 800. E. J. Miller, Engr., 10 Masonic Temple., Wheeling, W. Va.

PLYMOUTH, O.—The question of works is being considered, according to reports.

TRENTON, O.—The question of works to cost $4,000 is being considered. Address Dr. Graff and J. Eicher.

WELLSVILLE, O.—Superintendent Davidson, of the water-works, has been directed to ask for bids for furnishing 75 valves and 25 fire hydrants. Jas. B. Clow & Sons, Chicago, Ill., have been awarded the contract for furnishing water pipe, at $5,500.

FORT WAYNE, IND.—Reports state that new bids will soon be asked by the board of public works for furnishing an air lift pumping plant.

BARAGA, MICH.—City Engineer Edwards, of Houghton, Mich., and T. N. Nichols are preparing plans for works for Baraga, not Baroda, as reported last week.

GRAND RAPIDS, MICH.—The Grand Rapids Water Supply Co. has been incorporated with a capital of $3,680,000 by W. J. Walsh, of New York, and Gray & Ruppert, Lawyers, of New York.

ST. LOUIS, MICH.—The city is enlarging and improving its steam and hydraulic plant for water supply and electric light. The pumps, etc., will be driven by water power for about ten months and by steam for two months of the year. The present water power plant develops 150 HP., and this is to be increased to 250 HP. Bids will be opened June 3 for two triplex pumps of 750,000 gallons daily capacity; one 150-HP. medium-speed automatic steam engine, and one vertical turbine wheel of 100 HP. under 11-ft. head, with shaft and gearing. Plans and specifications with A. T. Maltby, Engineer, 1212 Fisher Building, Chicago, Ill. Geo. Newgreen, Clk. Bd. Pub. Wks., St. Louis, Mich.

KANKAKEE, ILL.—C. H. Cobb writes us that the city is prepared to receive bids for about 10,000 ft. of 12 and 8-in. water pipe, 20-in. intake, a 3,000,000-gallon engine, a 3,000,000-gallon filter plant, storage and sedimentation.

PROPHETSTOWN, ILL.—Reports state that this place will soon vote on the question of works.

ROCK ISLAND, ILL.—Dr. G. G. Craig, ex-Comr. of Health, writes us that a new administration is in charge of the affairs of the city and recommendations for improvements have been left to the new administration. B. F. Knox, Mayor.

STERLING, ILL.—The question of the municipal ownership of the works of the Sterling Water Co. is being considered. Address Alderman Werntz and Mayor Johnson.

APPLETON, WIS.—C. H. Gillett, Cy. Engr., writes us that the city will build new works. The water supply will be secured from Lake Winnebago. Pop., $15,000.

FOND DU LAC, WIS.—Adolph Barron and Wm. Schott, of Chicago, have purchased the controlling interest in the Fond du Lac Water Co. Extensive improvements will be made. W. H. Masson, Supt.

CEDAR FALLS, IA.—L. P. Robinson, Mayor, writes us that the city wants to put in a 100,000-gallon steel or wooden tank on standards already erected, and prices are desired.

CORRECTIONVILLE, IA.—Reports state that this place will extend the works, at a cost of $1,000.

DAVENPORT, IA.—Jos. P. Donohue, Secy. Davenport Water Co., writes us that it is proposed to increase the capacity of the filtration plant. Nothing definite has yet been decided upon, but it is probable that a sedimentation basin will be built in connection with the present plant.

ELLIOTT, IA.—An election will soon be held to vote on the question of issuing $2,500 in bonds for water mains and fire hose.

IMOGENE, IA.—This place will soon vote on the question of issuing bonds for works to be built by Brooks & Son.

MARION, IA.—The Marion Water Co.'s plant and property has passed to the control of Cedar Rapids, Ia., parties and improvements will be made. Geo. W. Torns, Pres.; E. J. Esgate, Secy.; Jas. Reilly, Supt.

OSCEOLA, IA.—This place is considering the question of works.

RADCLIFFE, IA.—Bids are asked until June 24 for constructing a steel water tower 70 ft. high with a 40,000-gallon water tank, about 2,100 ft. of 6 and 8-in. mains and for furnishing a deep-well pumping apparatus. Prof. A. Marston, Engr., Ames, Ia.; C. E. Myles, Cy. Recdr.

JASPER, MINN.—Bids are asked until June 18 for the purchase of $8,000 of bonds and until June 18 for constructing the proposed works, to consist of 1,500-bbl. cypress tank or steel tower, a brick well, 3,500 ft. of pipe, hydrants, etc. E. E. Humphrey, Recdr.

LAMBERTON, MINN.—Bids are asked until June 5 for constructing works and sewers. M. B. Haynes, Engr., Mankato; Robt. Morton, Mayor.

McINTOSH, MINN.—This place is considering the question of works and an electric plant to cost $6,500.

MINNEOTA, MINN.—W. D. Lovell, of Des Moines, Ia., is reported to have been awarded the contract at $13,055 for constructing works.

GARRETSON, S. DAK.—This place has voted to issue bonds for works.

VALLEY SPRINGS, S. DAK.—W. C. Gilmore, Recdr., writes us that this town will not put in works, as recently reported.

SHERIDAN, WYO.—Bids are asked until June 3 for extending the mains about three miles and build filter-beds; check, $1,000. F. H. Statts, Town Clk.

GREAT FALLS, MONT.—Mayor Collins is urging the council to build a storage reservoir at Boston Heights.

PARIS, MO.—This place will vote June 3 on the question of issuing $20,000 in bonds for works and an electric plant.

ST. LOUIS, MO.—Mayor Wells has asked for authority to appoint three engineers to investigate the question of improving the water supply. Water Commissioner Flad has recommended that a filter plant be constructed at a cost of about $2,430,000.

ANDERSON, TEX.—Bids are wanted by J. G. McDonald, Jr., County Judge, for completing an artesian well, which has already been driven to a depth of 1,015 ft., at which point hard rock has been struck. The Davy Crockett Oil & Mining Co., of Crockett, Tex., wants bids for driving a well about 1,500 ft., for prospecting for oil.

BREMERTON, WASH.—Bids are asked until June 29 for extending the salt-water fire-protection system at the naval station. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

COTTAGE GROVE, ORE.—This place voted May 25 on the question of issuing $15,000 in bonds for gravity works.

HILLSBORO, ORE.—H. V. Gates, who was granted a franchise for works in 1891, is reported to have had it extended five years.

FORT BAKER, CAL.—Bids are asked until June 10 for constructing works and a sewerage system at Fort Baker. J. H. Marshall, Asst. Q. M. Gen., U.S.A., San Francisco.

LOMPOC, CAL.—J. H. Harrington, of Santa Barbara, Cal., has submitted estimates for works to cost $30,000 and an electric plant to cost $10,000.

LOS ANGELES, CAL.—Bids are asked until June 18 for the purchase of a franchise for constructing flumes, ditches and pipe lines in Los Angeles county. C. W. Bell, Clk.

REDLANDS, CAL.—The Redlands, Lugonia & Crafton Domestic Water Co. has voted to extend its works, at a cost of $25,000.——This place will vote July 29 on the question of bonds for new works, etc.

VISALIA, CAL.—The Lindsay Heights Water Co. has been incorporated with a capital of $25,000 by W. H. Hammond, A. G. Wishon and B. M. Maddox.

BOISE, IDAHO.—This city has voted against the proposition to issue $120,000 in bonds for works.

OGDEN, UTAH.—The council has voted to accept the proposition made by the Ogden Water-Works Co. for settlement of the water question. The stockholders offered to sell the entire stock to the city for $50,000, including hydrant rentals since present company took charge, Sept. 1, 1900. The stock will be subject to the lien created by $400,000 in bonds given by the company at the time of purchase of the water-works by it.

SALT LAKE CITY, UTAH.—P. J. Moran has submitted the lowest bid, at $21,785, for constructing about 22,000 ft. of mains.——The College Irrigation Co. has been incorporated, with a capital of $8,000, by Jas. Nelson and Jos. S. Petersen.

LEWISTON, IDAHO.—W. H. Skinner has asked for a franchise for works, to cost about $75,000.

TUCSON, ARIZ.—Bids are asked until June 20 for furnishing 7,250 tons of 6-in. water pipe, pig lead, hydrants, etc., as stated in our advertising columns. N. E. Hawke, Cy. Recdr.

METLAKAHTIA, ALASKA.—Father Duncan is reported to have completed arrangements for works for this place to cost $29,000.

HULL, QUE.—Reports state that construction on the new pumping plant will soon be begun; estimated cost, $55,000.

RIMONSKI, QUE.—Dr. J. F. Demers, Secy. and Treas. of St. Octave of Metes, Que., writes us that the Electric Light Co. of Rimonski, recently organized with a capital of $100,000, will spend $75,000 for works and an electric plant. On account of legal proceedings nothing will be done at present, but Dr. Demers, however, wishes to secure prices, etc., of supplies.

SUSSEX, N. B., CAN.—Bids are asked until June 20 for constructing works to consist of a reservoir of 500,000 gallons capacity, 300 tons of iron pipe, 15,000 ft. of sewer pipe, 40 hydrants, etc., to cost $26,000. C. O. Foss, Engr., Bridgewater, N. S.; H. Allbute, Secy. Com.

HANOVER, ONT.—The receiver writes us that bids will be asked in a few days for constructing works to cost $25,000. R. E. Speakman, Engr., Toronto.

MIDLAND, ONT.—Bids are asked until June 17 for constructing works. Willis Chipman, Engr., 103 Bay St., Toronto, Ont.; D. L. White, Chn. Com.

NORTH TORONTO, ONT.—Bids were asked until May 28 for constructing works. R. E. Speakman, Engr., 99 Canada Life Bldg., Toronto; W. J. Douglas, Town Clk.

ST. MARYS, ONT.—We are informed that it is likely that bids for constructing works will soon be asked.

SEWERAGE.

BANGOR, ME.—City Engineer Coombs is preparing plans for new sewers to cost $30,000.

RANDOLPH, ME.—This place at a recent town meeting decided in favor of sewers. Address Town Clerk Dudley.

AMESBURY, MASS.—The legislative committee is giving hearings on the question of a system for this city to cost about $100,000. J. T. Clarkson, Chn. Com.; J. T. Choate, Town Solicitor.

BEVERLY, MASS.—Bids are asked until June 7 for furnishing sewer brick, pipe, cement, etc., as stated in our advertising columns. E. W. Bowditch, Engr., 60 Devonshire St., Boston.

BOSTON, MASS.—B. T. Wheeler, Supt. Sts., has recommended that the 12-ft. brick channel be extended to the river.

PITTSFIELD, MASS.—Bids are asked until June 25 for furnishing and installing sewage pumping machinery, as described in our advertising columns. J. L. Bacon, Chn. Bd. Pub. Wks.

QUINCY, MASS.—Bids are asked until 4 p. m., May 31, for 800 ft. of 24-in. pipe sewer. It is proposed to extend the sewers at a cost of about $70,000. C. F. Knowlton, Comr. Pub. Wks.

WHITINSVILLE, MASS.—F. C. Coffin, of Boston, has been engaged to prepare plans for sewers. Dr. E. I. Balcom, Chn. Bd. of Health.

HARTFORD, CONN.—New bids will soon be asked for constructing an extension to the intercepting sewer. C. C. Bunce, Cy. Engr.

NEW YORK, N. Y.—Bids are asked by the department of sewers, Park Row Bldg., until June 5 for pipe sewer, etc., in East 180th St.

ANGLESEA, N. J.—Reports state that this place is considering the question of sewers.

ELIZABETH, N. J.—The cities of Elizabeth, Vailsburg, Milburn, East and West Orange, Newark and Irvington are again considering the question of a joint-trunk sewerage system.

HOBOKEN, N. J.—City Engineer McCann has completed plans for two sewage pumping plants and for other improvements to the works.

MOORESTOWN, N. J.—The council will soon ask for bids for constructing a sewerage system to cost about $45,000.

NEWTON, N. J.—The question of building a system to cost about $75,000 is being considered. Address Dr. C. H. Hamilton, Pres. Bd. of Health; J. L. Swayze and W. W. Woodward.

BEN AVON, PA.—Bids are asked until June 4 for constructing sewers, etc., in a number of streets. Trimble & Miller, Engrs., 430 Fourth Ave., Pittsburg, Pa.

PHILADELPHIA, PA.—The survey board has approved plans for extending the sewers in the suburban districts.

SWISSVALE, PA.—The boroughs of Swissvale, Edgewood, North Braddock, Rankin and Braddock are considering the question of building a joint sewer in Hawkins Hollow for about three miles at a cost of about $50,000.

WASHINGTON, D. C.—Bids are asked by the district commissioners until June 22 for constructing sewers, as stated in our advertising columns.

WILMINGTON, N. C.—The council has granted a franchise to build and operate a system to the Wilmington Sewer Co., controlled by the Sanitary Sewerage Co., of Philadelphia. J. H. McRee, Cy. Engr.; E. P. Bailey, Chn. Com.

NEWBERRY, S. C.—The question of building a system is again being considered.

QUITMAN, GA.—This place is discussing the matter of building a system.

MONROE, LA.—Bids are asked until June 17 for constructing a system, as stated in our advertising columns. Schuerman & Brown, Engrs., Nashville, Tenn.; A. A. Forsythe, Mayor.

CLEVELAND, O.—Bids are asked until June 6 and June 20 for constructing sewers in several streets. Chas. P. Salen, Dir. Pub. Wks.

COLUMBUS, O.—Rudolph Hering, 100 William St., New York, has submitted a report on the proposed improvements to the system. The following are the estimates: Settling and septic tanks for 20,000,000-gallon plant at $7,575 per 1,000,000 gallons, $151,500; 80 acres filter beds, $8,940 per acre, $715,200; force mains and right of way to pumping station, $84,961; water mains and hydrants, $8,723; electric motors and pumps, $3,000; electric transmission and lamps, $6,722; well and pump house, $2,500; laboratory building, $3,000; laboratory supplies, $1,000; railroad siding and bridge, $60,000; total, $1,036,606; add 10% engineering and construction, $103,660, and land, $78,750; grand total for disposal, $1,219,016. Other expenses are: Pumping plants, $145,019; improvements and extension of sewers, $712,300; total, $857,319.

CRAWFORDSVILLE, IND.—Jas. M. Waugh has been awarded the contract at $22,365 for constructing about 29 miles of sewers.

LEBANON, IND.—J. W. Fulwider, Cy. Engr., writes us that plans will soon be completed for a system to consist of about 15 miles of 24 to 8-in. pipe sewers. C. G. H. Goss, Engr., Martinsville, Ind.

CEDAR RAPIDS, IA.—Bids are asked until May 31 for constructing a 7-ft. and 14-ft. brick and other brick and pipe sewers in several streets. R. A. Wallace, Chn. Com.

OTTUMWA, IA.—John W. Scott has been awarded the contract for constructing a brick sewer in the south side.

OMAHA, NEB.—Bids are asked by the board of public works until June 7 for constructing a number of sewers.

FORT LINCOLN, N. DAK.—Walter Graham, of Bismarck, N. Dak., has been awarded the contract at $16,250 for constructing a system, and at $10,300 for building water-works, except the pumping station, which contract went to N. H. Lovin, of Bismarck, at $6,035.

IONA, MINN.—We are informed that plans for a system have been completed, and that about 2,000 ft. of pipe will be laid this season. M. B. Haynes, Engr., Mankato.

ST. PAUL, MINN.—Bids are asked until June 6 for constructing about 2,650 ft. of pipe and 490 ft. of 30-in. brick sewers, catchbasins, manholes, etc., in several streets. C. H. Bronson, Clk. Bd. Pub. Wks.

COLUMBIA, MO.—Bids are asked until June 4 for constructing five district sewers. J. S. Bicknell, Cy. Clerk.

SPOKANE, WASH.—The city engineer has completed plans for two trunk sewers and branches for the Fourth Ward.

SUMPTER, ORE.—It is proposed to build a system at a cost of about $7,500. Address City Engineer Fenner.

CHICO, CAL.—O. L. Clark, Pres. of Trustees, wrote us under date of May 24 that this place would vote May 29 on the question of issuing $45,000 in bonds for constructing sewers.

SACRAMENTO, CAL.—Bids are asked until June 3 for constructing a 42 to 20-in. brick sewer in several streets. M. J. Desmond, Cy. Clk.

BOISE, IDAHO.—R. W. Faris has been awarded the contract at $39,700 for constructing new sewers.

WALKERTON, ONT.—It is proposed to extend the sewers and water mains at a cost of about $9,000.

GARBAGE DISPOSAL—STREET CLEANING

LAWRENCE, MASS.—The council has voted to build a garbage crematory to cost $20,000. Address City Clerk Corcoran.

LOWELL, MASS.—The committee appointed by the council to investigate the question of the disposal of garbage, has returned a report that the cremation of garbage is the best way of disposing of it, and recommended that the Smith crematory be used.

PORTSMOUTH, VA.—The Dixon Garbage Crematory Co., of Toledo, O., has been awarded the contract for building a crematory at the navy yard at $4,300.

ATLANTA, GA.—The contract for cremating the city garbage has been awarded to J. F. Lester at $13,000 a year.

NEWPORT, KY.—The proposition of building a garbage crematory is again under consideration.

FINDLAY, O.—A site for the $8,000 garbage crematory to be built by the city is under consideration.

GLENVILLE, O.—A proposition for a system of garbage collection was brought before the council at the last meeting.

TRAVERSE CITY, MICH.—The mayor has recommended that the disposal of the city's garbage be provided for.

CHICAGO, ILL.—The proposition of a $25,000 garbage crematory for the 25th Ward is to be brought before the council by Alderman Williston at the next meeting.

KENOSHA, WIS.—The proposition of building a garbage crematory is to be brought before the council at the next meeting.

MILWAUKEE, WIS.—The contract for building two garbage crematories was awarded to G. J. Strachota at $19,600. He was also awarded the contract for the garbage plant smokestack at $6,399.

STREETS AND ROADS.

BOSTON, MASS.—B. T. Wheeler, Supt. Sts., estimates the cost of paving Bremen St., from Maverick St. to Prescott St., as follows: Grading, macadamizing and regulating, $30,600; paving with granite blocks on gravel base, with gravel joints and regulating, $43,100; paving with granite blocks on concrete base, with pitch joints, and regulating, $65,000.

FALL RIVER, MASS.—About $8,000 worth of granite and cement curbing will be laid this summer and 11,000 sq. yds. of concrete sidewalks constructed.

NORTH ADAMS, MASS.—Bids are asked until June 12 for paving three streets requiring about 3,600 sq. yds. of vitrified brick, and about 3,000 ft. of curbing, granite furnished by the city; also about 600 sq. yds. of roadways for three bridges, as stated in our advertising columns. J. L. Temple, Comr. Pub. Wks.

SHIRLEY, MASS.—Bids are asked by J. P. Hazen, Chn. Com., until June 10 for widening and grading Main and Pleasant Sts. and rebuilding bridge over brook crossed by Main St.

BRIDGEPORT, CONN.—Bids are asked until June 5 for laying about 4,500 sq. yds. of brick pavement, brick furnished by the city, as stated in our advertising columns. A. E. Lavery, Cy. Clk.

BINGHAMTON, N. Y.—The purchase of a roller and stone crusher is being considered by the supervisors.

BINGHAMTON, N. Y.—Bids are asked until June 11 for paving portions of two streets with vitrified brick or Trinidad Lake, Bermundez or Alcatraz sheet asphalt, as stated in our advertising columns. I. C. Hull, Cy. Clk.

BROOKLYN, N. Y.—A resolution has been adopted by the board of improvements to open Bedford Ave. from the Eastern Parkway to Flatbush Ave.——Bids are wanted by the department of highways, 21 Park Row, New York, for improvements on nine streets, requiring 2,560 sq. yds. of new granite block pavement, 5,320 cu. yds. concrete, 26,502 cu. yds. of excavation, 34,451 sq. yds. of asphalt, 31,920 sq. ft. new flagstone, 11,939 sq. ft. old flagstone, concrete sidewalks, cement and stone curbing, etc.

GLENS FALLS, N. Y.—Bids are wanted by the board of trustees until June 17 for about 9,000 yds. of brick paving and about 3,000 yds. of granite block paving, as stated in our advertising columns.

SYRACUSE, N. Y.—Proposals for paving 16 streets, requiring 80,000 sq. yds. of pavement, have been opened by the board of contract and supply, and contracts will be awarded before June 3.

BUFFALO, N. Y.—Bids are asked until June 7 for repaving some seven streets. R. G. Parsons, Secy. Bd. of Pub. Wks.

JERSEY CITY, N. J.—Bids are wanted by the board of street and water commissioners until June 4 for improvement of Oxford Ave.

NEWARK, N. J.—We are informed that the Barber Asphalt Paving Co., Academy and Halsey Sts., Newark, was awarded the contract May 16 for Bermudez Lake asphalt paving in eight streets at a total of about $100,000. The Newark Paving Co., 800 Broad St., secured the contract for paving Mount Prospect Ave., from Abingdon to Elwood Aves., with Mack repressed block at $2.[illegible] sq. yd. J. R. Shanley, 867 Broad St., has been awarded the contract for oblong granite block paving in five streets at a total of about $26,000. The itemized bids were published last week. Ernest Adam, Engr. of Street and Sewer Depts., City Hall.

ROSELLE, N. J.—Bids are wanted by the mayor until June 7 for improving 4th Ave., approximately 1,250 sq. yds., of macadam, as stated in our advertising columns.

ALLEGHENY, PA.—The council has authorized the paving, etc., of Belmont St., from Western Ave. to Ridge Ave., and an unnamed 20-ft. alley in the 5th Ward. Robt. Dilworth, Cy. Clk.

BROOKVILLE, PA.—The council has decided to pave portions of five streets with brick at a cost of $12,000.

CHESTER, PA.—Bids are asked until June 3 for paving 13th St. from Providence Ave. to Chestnut St., and Chestnut St. from 13th to 14th St., with sheet asphalt. W. T. Cullis, Chn. Street Committee.

WILKES BARRE, PA.—Bids are asked until May 31 for all paving brick and block to be required for repaving during the present fiscal year, approximately 7,500 sq. yds.

BALTIMORE, MD.—Mayor Hayes has signed an ordinance to grade and pave Bayard St., from Columbia Ave. to Herkimer St.

GREENVILLE, N. C.—Bids are wanted by the aldermen for the purchase of $75,000 of improvement bonds.

WILMINGTON, N. C.—An election will be held on May 31 to vote on the question of issuing $50,000 in bonds for road building.

COLUMBUS, GA.—The council has passed favorably on the petition for the pavement of 12th St. with brick, approximately 12,600 sq. yds.; estimated cost, $28,000. Robt. L. Johnson, Supt. Pub. Wks.

SHREVEPORT, LA.—Bids are asked until June 6 for paving about 14 streets, requiring about 26,803 sq. yds. of brick asphalt, 8,499 sq. yds. of brick or granite block, 15,117 sq. yds. of brick, asphalt or granite blocks, and 10,268 sq. yds. of vitrified brick. N. B. Murff, Comptroller.

BOWLING GREEN, O.—Bids are asked until June 18 for grading, draining and macadamizing about five miles of road. B. C. Harding, County Auditor.

CINCINNATI, O.—Bids are asked until June 12 for grading and paving with brick Pennock Alley from Cutter St. to Baymiller St. Robt. Allison, Pres. Bd. of Pub. Service.

COLUMBUS, O.—An investigation is being made by the engineer's department as to the cost of repairing the city pavements. The cost will probably be about $50,000.

DAYTON, O.—Bids are asked until June 4 for grading and paving an alley. Robt. H. Ferguson, City Comptroller.

LIBERTY, O.—The issue of $125,000 road bonds has been voted on.

LIMA, O.—Bids are asked until June 20 for improving Kibby St. from Main St. to Oak St., requiring about 12,273 sq. yds. of paving with vitrified brick. C. E. Lynch, City Clk.

TOLEDO, O.—Bids are asked until June 24 for repaving Maumee Ave. with different materials. J. E. Connell, City Clk.

WAPAKONETA, O.—Bids are asked until June 14 for improving Blackford St., requiring about 2,400 ft. of sewer pipe, 8,558 sq. yds. of brick paving, etc. Samuel Craig, Engr.

BRAZIL, IND.—Bids are asked until June 3 for grading and graveling seven miles of road. Jacob Luther, Chn.

INDIANAPOLIS, IND.—Bids are wanted by the board of public works until May 31 for improving portions of three city streets and the sidewalks of five streets, requiring cement paving, grading, etc.

MICHIGAN CITY, IND.—A contract for paving has been awarded to F. M. Kemp & Sons, Middletown, O., at $50,000.

RENSSELAER, IND.—Bids are asked until June 3 for constructing two roads of gravel, also macadam, in Keener township. Wm. C. Babcock, County Auditor.

RUSHVILLE, IND.—Bids are asked until June 4 for grading, curbing and paving with cement, 5th St., from Main St. to the Lake Erie & Western R. R. John Rutlidge, Cy. Clk.

SEYMOUR, IND.—Bids are asked until June 13 for improving the alley running through block W, between the B. & O. S. W. R. R. and High St. Louis E. Jennings, City Clk.

SOUTH BEND, IND.—Bids are wanted by the department of public works until June 11 for grading Midway St., from Fellows St. to Main St.

VINCENNES, IND.—Bids are asked until June 4 for building about 14 miles of gravel road. J. D. Williams, Auditor, Knox county.

DETROIT, MICH.—Resolutions, ordering the paving with cedar block, and grading and curbing several streets, have been passed by the council.

DETROIT, MICH.—The contract for repaving Junction Ave., from Dix to the M. C. R. R. tracks, with Buckeye brick, has been let to John Mercier at $19,736; repaving Cass Ave., from Holden to Amsterdam, with asphalt, was awarded to the Barber Asphalt Co. at $16,688; for repaving Baltimore Ave., between Woodward and Brush, and Foundry St., between Baker and Michigan, was awarded to Julius Porath at $15,386.

GRAND RAPIDS, MICH.—The contract for paving Broadway with brick from West Bridge to 7th St. has been awarded to Albert Prange at $12,923. The contract for grading and graveling Ridge Ave., from So. Division St. to Buchanan St., was let to Gilner & Meller at $4,900.

KALAMAZOO, MICH.—The question of paving is being considered by the council. Estimates have already been made by the city engineer, but no decision has been reached regarding the materials to be used.

CHICAGO, ILL.—A movement is being made to have the central portion of the city paved with asphalt.

LA GRANGE, ILL.—Bids are wanted by the board of local improvements until June 1 for constructing about 133,000 sq. ft. of cement sidewalk.

DES MOINES, IA.—Bids are asked until June 10 by the board of public works for about 10,000 cu. yds. of grading in Summit St.

ST. PAUL, MINN.—The contract for paving with brick portions of Bradley, North and Bedford Sts., and Locust St., from 7th to 10th St., has been awarded to Fielding & Shepley at $23,000.

SEATTLE, WASH.—Resolutions have been passed by the council for improving several streets.

MANUFACTURING PLANTS.

HOOKSETT, N. H.—The cotton storehouses owned by the Hooksett Mfg. Co., have been destroyed by fire; loss, about $90,000.

ROCKLAND, MASS.—The firm of Rice & Hutchins, manufacturers of shoes, has decided to consolidate its two plants at Kennebunk, Me., and South Braintree, Mass., and remove them to this place, where a site has been secured. The new establishment will employ 1,000 hands.

PATERSON, N. J.—It is stated that the International Power Co., of Providence, R. I., will remove its shops here. The new plant to be erected will employ about 5,000 hands.

DOYLESTOWN, PA.—The Frumbauersville Improvement Co. has been organized, and will erect a cigar factory to accommodate 200 employees of the firm of Otto Eisen, Cohn & Bros., of Philadelphia.

DUNBAR, PA.—Reports state that Bliss & Marshall, of Uniontown, will erect a new plant here.

GREENSBURG, PA.—A company of capitalists, headed by Lewis D. Castle, will erect a factory for the manufacture of brass and iron goods, employing about 300 men. The capital stock will be about $100,000.

PHILADELPHIA, PA.—Davis Bros., Archs., Ninth and Walnut Sts., have been selected to prepare plans for an addition to the worsted mills at Bristol, for Wm. Grindey. Bids will soon be called for.——J. S. Cornell & Son have been granted a permit to erect a one-story brick factory, 96 x 221 ft., on 56th St., below Lancaster Ave., to cost $20,000, for the James Dunlop Carpet Co.

PITTSBURG, PA.—The St. Clair Steel Co. has awarded a contract to the Crucible Steel Co. of America for 12 electric cranes for the new open-hearth steel plant at St. Clair. They will cost about $75,000.——The D. O. Cunningham Glass Co. has decided to build its factory at Jane and South 22d Sts., at a cost of $42,000.——J. H. & H. W. Stevenson are forming a company to manufacture a brake invented by John G. Ebkin, of the East End. The company will be capitalized at $50,000——The American Bridge Co. is preparing plans for the erection of a bridge works in this city, to employ about 5,000 men, according to reports. A site is said to have been purchased.

RICHMOND, VA.—The plant of the William R. Trigg Co. will be enlarged, and the capital stock will be increased from $2,000,000 to $3,000,000.

AKRON, O.—The reorganized Webster, Camp & Lane Co., capitalized at $300,000, will build a plant in South Akron for the manufacture of heavy mining machinery.

CANTON, O.—The Cleveland Axle Mfg. Co. has been asked to vacate its site for a new concern which will manufacture carriage springs. The new plant will be 50 x 200 ft.

CINCINNATI, O.—The Ault & Wiborg Co. will soon begin the erection of a new plant, plans for which have been prepared by Einzer & Anderson, Archs.

CLEVELAND, O.—The Brown Hoisting & Conveying Machine Co. has made application for permission to erect a new steel frame structure, 300 x 500 ft., on the site of the old factory destroyed by fire. It will cost about $300,000.

INDIANAPOLIS, IND.—The Indiana Portland Cement Co. is arranging to build a $2,000,000 plant in Milltown, to have a capacity of 6,000 bbls. a day. The same company is planning to establish a mill at Kosciusko county marl beds, to have a capacity of 700 bbls. per day.

CHICAGO, ILL.—Plans have been prepared by Peabody & Blanley, Archs., Monadnock Bldg., for a factory for the National Aeriform Carbon Co., of Chicago Heights, on the south branch of the Chicago River.——Wendnagel Bros. have purchased a tract of land, on which will be erected a manufactory of wooden tanks. The building will consist of four stories high, 180 x 150 ft., and will cost $50,000.

ST. PAUL, MINN.—The Towle Syrup Co., whose plant on East Fifth St. was recently destroyed by fire, will be rebuilt on a larger scale. The cost of the entire new works will be $75,000. The principal building will be three stories, 100 x 115 ft.

ST. LOUIS, MO.—Local papers state that the works of the Merchants' Wire & Nail Co. will pass into the hands of the American Steel Wire Co., and will be greatly enlarged. J. G. Brooks, Joliet, is interested.——The Allis-Chalmers Co. will expend $2,500,000 in the erection of a new plant to double the present capacity of the Allis works.

ORANGE, TEX.—Arrangements are being completed by J. A. Petty, Arch., for beginning work on the Orange Rice Mill Co.'s new plant. The work will be pushed. B. D. Hurd, Vice-Pres.

GREELEY, COLO.—Preliminary details are reported to have been arranged for the erection of a $700,000 beet-sugar factory here. Clarence A. Granger is the promoter of plan. A. McClenahan and P. U. Allen, of Greeley, are also interested.

SAULT STE. MARIE, ONT.—Reports state that the Consolidated Lake Superior Co. has prepared plans for a plant for the manufacture of steel billets and rails at this place, to have a capacity of 2,500 tons a day. The company owns valuable iron ore mines in this district, and it is expected that 5,000 tons of ore will be used daily when operations are begun. The company will receive a bonus from the Canadian Government of $7 a ton on all steel manufactured in Canada. The concern was originally started to manufacture wood pulp for paper making, and has a large plant at this place in operation. It is also proposed to increase the paper pulp manufacturing business. E. V. Douglas, Pres.; F. S. Lewis, Treas., and F. H. Clerque, Vice-Pres. and Gen. Mgr., Sault Ste. Marie.

MISCELLANEOUS CONTRACTS.

TELEPHONE.—New York, N. Y.—The New York & New Jersey Telephone Co. is to construct a direct telephone line to Philadelphia.

DREDGING.—Philadelphia, Pa.—Bids are wanted until June 3 for dredging docks. Geo. F. Sproule, Secy. Bd. Port Wardens.

WHARVES.—Camden, N. J.—The contract for erecting wharves at the foot of Chestnut St. has been awarded to B. F. Sweeten & Son, at $30,645.

WHARF.—St. Louis, Mo.—Bids are asked by the board of public improvements until June 4 for repairing a wharf with granite and limestone blocks.

LEVEE.—Vicksburg, Miss.—Bids are asked until June 5 for constructing 110,000 cu. yds. of levee at Madison Parish. J. T. M'Clellan, Pres. Bd. of Comrs.

CHANNEL IMPROVEMENTS.—Philadelphia, Pa.—A bill has been introduced in the legislature appropriating $200,000 for deeping the Delaware River channel.

PARK.—Camden, N. J.—Plans are being perfected for a park on the Delaware River. Piers 90 ft. wide and extending 1,200 ft. into the river are to be constructed.

TELEGRAPH AND TELEPHONE.—Washington, D. C.—Bids are wanted by the district commissioners until June 1 for furnishing underground signal and telephone cables for the fire alarm and police telegraph and telephone service.

STREET SIGNS.—Holyoke, Mass.—Bids are asked until June 7 for furnishing 500 or more street signs, as stated in our advertising columns. M. F. Walsh, Chn. Bd. Pub. Wks.

SUBWAY.—Chicago, Ill.—The proposition of constructing a four-mile subway under Halsted St., at a cost of about $5,000,000, is being promoted by Alderman Frank T. Fowler.

SCREENINGS.—New York, N. Y.—Bids are wanted by the park board until June 6 for furnishing shale sandstone screenings on the Ocean and Eastern Parkway, in Brooklyn.

CANAL.—Ottawa, Ont.—It is proposed by the Montreal, Ottawa & Georgian Bay Canal Co. to build a canal 430 miles long from the Great Lakes to Montreal, at a cost of $68,000,000.

LAND IMPROVEMENTS.—Portland, Ore.—Property owners at Clatsop Beach are building a bulkhead and filling in along the beach with a view to building cottages and a hotel.

WHARVES.—Oakland, Cal.—Jas. L. De Fremery, of New York, N. Y., has purchased 50 acres of land on the water front for $62,000, and will construct wharves and warehouses.

DREDGING.—Bay Natchez, La.—Bids are asked until June 27 for dredging in Flat Lake and Bay Natchez, as stated in our advertising columns. Lt.-Col. H. M. Adams, U. S. Engrs., New Orleans, La.

DREDGING.—Washington, D. C.—Bids are asked until June 22 for dredging about 141,000 cu. yds. of material at the Navy Yard, Mare Island, Cal. Mordecai T. Endicott, Ch. Bureau Yards and Docks.

TUNNEL.—Philadelphia, Pa.—Bids are reported wanted by the Pennsylvania R. R. until May 28 for constructing a tunnel 600 ft. long with retaining wall about 1,000 ft. long. W. H. Brown, Ch. Engr., Broad St. Station, Philadelphia, Pa.

AIR COMPRESSING PLANT.—Boston, Mass.—The contract for an air compressing plant for the Metropolitan Water Board has been awarded to the McKiernan Drill Co., at $25,000. Contract for engines, boilers and piping will be sublet.

BOLTS, CASTINGS, ETC.—Charleston, S. C.—Bids are asked until June 29 for steel and cast-iron members for four lock gates, miter sill bolts, valves and manoeuvring gear castings, as stated in our advertising columns. Capt. J. C. Sanford, U. S. Engrs.

FIRE ENGINE.—Alexandria, Va.—We are informed by J. G. Holcombe, Cy. Engr., that money will be available after June 1 for the purchase of a steam fire engine. The appropriation was recently made by the finance committee of the council. For information the Fire Wardens may be addressed.

DREDGE.—Portland, Ore.—The port commissioners are considering the advisability of building a new dredge, costing from $100,000 to $125,000. The matter will be decided on in the near future. President Hughes has recommended that plans be started at once for a 30-in. dredge, which will have a capacity double that of the present one.

DOCK.—West Superior, Wis.—It is reported that James J. Hill, Pres. Montana Central Ry., St. Paul, Minn., will build a large dock on the bay front; also a coal dock, with 50 steel riggings and a capacity for handling 2,000,000 tons of coal. Work is to be commenced soon on the coal dock. The other dock and a passenger depot and dock will be started later.

LAND IMPROVEMENTS.—New York, N. Y.—A. L. Mayer, of Benj. P. Moore & Co., contractors, 15 Broad St., New York, confirms the report that the Newark Meadows have been sold for $3,000,000. The land will be reclaimed and probably be used as a terminal for the Western trunk railways and for warehouses, for freight storage and sheds for the storage of coal.

SAND DRYER.—Reading, Pa.—The following bids for furnishing a sand dryer were received May 23; Alex. Murdoch, Cy. Engr.: Norfolk (Va.) Sand & Cement Co., $900; J. R. Alsing Co., 75 Guernsey St., Brooklyn, $1,500; John H. Hook, 431 West Lenox St., Lancaster, Pa., $8,518; North Penn Iron Co., North Penn Junction, Philadelphia, Pa., $2,425; Turney Drier Co., Louisville, Ky., $4,000.

COALING PLANT.—Washington, D. C.—The following bids were received by the bureau of equipment on May 14 for constructing a coaling plant at Portsmouth Grove, R. I.: Snare & Triest, 39 Cortlandt St., New York, (1) $301,460, (2) $322,740, (3) $324,740, (4) $307,320, (5a) $321,330, (b) $355,410, (c) $346,100, (d) $288,910, (e) $273,690, (f) $268,550, (g) $274,380, (h) $295,850; house included in plant, $4,000; barn, $1,200; time, 15 months. Haskins & Coffin, (1) $385,098, (2) $419,695, (3) $443,829, (4) $370,360, (a) $391,760. Hoffman Engineering & Contracting Co., Philadelphia, Pa., (1) $450,000, (2) $502,000, (3) $485,000, (4) $537,000, (5) $455,000, (6) $485,000, (7) $495,000, (8) $525,000, (9) $400,000, (10) $444,000, (11) $406,000, (12) $460,000; time, 12 months. J. W. Bishop Co., (1) $480,990, (2) $504,065, (3) $530,900, (4) add to (1) $5,311, (5) $6,500; barn, $3,200; (6) $3,800. August Smith, (1) $321,238, (2) add $33,919, (3) add $57,580, (4) $321,238, (5a) $321,238, (b) $326,142, (c) $347,813, (d) $344,783, (6) $2,800; proposition 2, item (1), $371,305; concrete building, (1), $376,500.

U. S. TROPICAL POSSESSIONS & CUBA.

PUBLIC WORKS, ETC.—Philippine Islands.—A correspondent in Manila, P. I., sends us the following items regarding work in the Philippine Islands: The Manila & Dagupan R. R. Co. has purchased three cars of American manufacture. This is the first American rolling stock which has been brought into the islands, and is only a trial order. The gage of this road is 42 ins.——Attorney J. M. Vale was to leave shortly for Washington, D. C., where he intends presenting before Congress an application for railway concessions for a recently organized company. Mr. Vale declines to discuss the matter, but it is reported that it is the intention to build from Manila to Aparri, through the Cagayan Valley. The distance is 250 miles, with some difficult grading between Puncan and Carranglan, where the range would probably be crossed. ——Capt. J. F. Merry and Lieut. A. M. Bucher have returned from the Island of Guam, where they have been for four months surveying the harbor.——It is reported that $5,000 has been appropriated for the survey of Iloilo Harbor, Island of Panay. The work will be under charge of the Chief Engineer, Division of the Philippines.——A rich strike of petroleum is reported from the southern islands, though the matter is being kept very quiet and no details are at hand.——The contract for raising the sunken wrecks of Spanish warships at Cavite has been awarded to Hoffman & Co., of Manila. One other local firm, one Japanese and one Australian firm also submitted bids. Under the contract Hoffman & Co. are to remove all the wrecks, receiving as compensation the hulks and metal, there being, according to that firm's way of figuring sufficient cast-iron and brass on the sunken vessels to pay all the expenses and leave a good margin of profit in the contract. The "Marquis del Duero," a small gunboat, will be the first vessel raised. This boat, as was the case with others, was not pierced by a single shell, but was sunk by her officers to prevent capture. The "Bulusan," a still smaller gunboat, will be raised. This boat took no part in the engagement on May 1, 1898, at which time she was on the ways undergoing repairs. Subsequently she was anchored in the inner bay, and while there without a guard she was sunk by natives, who stole the brass rims off her sea valves. Hoffman & Co. expect to raise and sell it entire. The other vessels are the gunboats "Castelar" and "Don Antonio de Ulisa," and the Spanish mail steamer and transport "Mindanao," and will present numerous difficulties not met with in the raising of the first two mentioned boats. A bond of $1,000 (gold) was required and one year and 30 days allowed to complete the work in.——Bids are asked by the city engineer of Manila until June 15 for materials for a steel market, delivery to be made within six months, ex-ship Manila Bay.——Bids are asked by the Chief Engineer, U. S. A., Manila, until Aug. 1 for 325,000 cu. yds. of dredging in Pasig River, as stated in our advertising columns. The river is to be dredged to a depth of 18 ft. The material to be removed consists of mud (not clay), sand and shell. Bond, $3,000, gold. Specifications may be secured at the various U. S. Engineers' offices in the United States.——Bids are asked by the Chief Engineer, Div. of the Philippines, U. S. A., Manila, until Aug. 1 for building a harbor at Manila.——In our issues of Dec. 29, Jan. 10, 17 and 24 and Feb. 7 and 14 we published letters from various correspondents describing very fully the prospects for work in the Philippines. Firms wishing to arrange for the sale of manufactures can address F. Emerson Hoar, C. E., M. E., P. O. Box 423, Manila, and Newhall & Fenner, Manufacturers' Agents, P. O. Box 427, Manila.

FOREIGN CONTRACTS AND EXPORT NEWS

CEMENT.—South Africa.—Consul-General Guenther, of Frankfort, Germany, reports that South Africa is a good market for cement.

WATER-WORKS.—Guadalajara (Jalisco), Mex.—A syndicate, it is stated, will soon begin the construction of water-works in Guadalajara.

BUILDINGS.—Newcastle-upon-Tyne, Eng.—The city proposes to erect municipal buildings, to cost about $2,500,000. Wm. G. Laws, Cy. Engr.

ELECTRIC PLANT.—Exeter, Eng.—Bids are asked until June 14 for the power house equipment for the proposed electric plant. H. D. Munro, Cy. Elec. Engr.

UNDERGROUND ELECTRIC RAILWAYS.—Christiania, Norway.—It is proposed to build several short lines of electric underground railways to cost about $2,400,000.

NAVY.—Italy.—Reports state that the Chamber, Rome, has adopted an amendment providing for naval estimates to 1906 and appropriating about $22,900,000 for a merchant navy.

BRIDGES.—Indo-China, Asia.—Bids are asked by the director of public works of Tonkin, Hanoi, Indo-China, until July 6 for constructing two iron bridges, one to be about 198 ft. long.

PUMPING PLANT.—Montevideo, Uruguay.—Press reports state that the government of Uruguay is securing information with a view to installing a large pumping plant in Montevideo.

TRAVELING CRANE.—London, Eng.—Bids are asked until June 12 for furnishing the East Indian Ry. with an electric traveling crane, etc. C. W. Young, Secy., Nicholas Lane, London, E. C.

ELECTRIC PLANT.—Leeds, Eng.—The municipal council is reported as considering the question of erecting a new electric plant, to cost about $2,500,000. Thos. Hewson, Cy. Engr. and Surv.

FEED PUMP, ETC.—Burnley, Eng.—Bids are asked until June 10 for furnishing five injectors of 700 gallons capacity per hour and a feed pump of 3,500 gallons per hour. Robt. Birkett, Elec. Engr.

TELEPHONE SYSTEMS.—Russia.—Reports state that a Swedish syndicate has secured the concessions for several telephone systems in Russia, including a system for Moscow. K. W. Petersson, Engr., Stockholm, Sweden.

ELECTRIC PLANT, ETC.—Manchester, Eng.—It is proposed to build a new electric plant, to cost about $4,000,000; a new police station, to cost $110,000, and a fire station, to cost $30,000. T. de Courcy Meade, Cy. Engr.

RAILWAY.—Mexico.—Reports state that Wm. Astor Chanler, Union Club, New York, N. Y., and C. D. Wetmore, 3 East 33d St., New York, have purchased the Hidalgo & Northeastern Ry. for $6,000,000, which it is proposed to improve.

DOCK.—Corinto, Nicaragua.—T. Solomon, an American citizen residing in Bluefields, Nicaragua, has been granted a concession to build an iron dock at Corinto. The dock will be about 500 ft. long and 315 ft. wide, and will cost about $150,000, gold.

STEAMSHIP CONCESSION.—British Honduras, C. Am.—Bids are asked by the Colonial Secretary, Belize, British Honduras, until June 4 for the purchase of a concession to operate steamers of not less than 1,000 tons on several rivers and between certain points.

QUARRYING.—Egypt.—Bids are asked by the Chief Engineer of the Municipality, Alexandria, Egypt, until July 30 for the right to exploit for 10 years the Vasalt quarries at Abou-Zabel. The contract will include the right to supply Alexandria with such paving material as may be required for the next 10 years.

AIR COMPRESSORS, MACHINERY, ETC.—India.—Reports state that Mohamed Abdul Hafiez, of Bangalore (Mysore), Southern India, wants prices on air compressing machinery, machinery for drying meats, apparatus for extracting aloe and rhea fiber, for preserving and canning meats and fruits, for chilling poultry and meats, and machinery for handling tobacco.

RAILWAY.—Mexico.—We are informed that Carlos H. M. Blake, Apartado Postal 94, Guadalajara, Mex., has just made a contract with the Compañia de Tranvias de Mexicaltzingo to extend their lines for a length of four kilometers. Nothing is being done in regard to substituting electric for animal traction in this city, about which so many reports have been published.

RAILWAY.—Mexico.—Reports state that Wm. A. Chanler, Union Club, New York, and others, who have secured an option on the Hidalgo Northern Ry., propose to extend the road from Tampico to Matamoras. At Matamoras connection will be made with a road which is to be built to that place from San Antonio, Tex., thereby forming a new direct route from the United States to the City of Mexico, which will be about 200 miles shorter than the shortest existing route.——It is said that Chicago capitalists have encouraged the Mexican government to build a railway from Tia Juana, southward through Lower California, thus bringing Southern and Lower California into closer communication.

CANALS.—Hungary.—Frank W. Makin, U. S. Consul at Reichenberg, Austria-Hungary, reports that the Hungarian Ministry of Commerce is engaged with plans for an all-water connection betwen Fiume, the Hungarian seaport on the Adriatic, and Stettin, a German seaport on the Baltic. The plans contemplate the joining of the Oder and the Danube rivers by a canal. Stettin is at the mouth of the Oder, which rises in the Austrian province of Moravia, at no great distance from the Danube, to which a canal can be constructed through a connecting valley. From the Danube, the route will lead through an existing canal to the Save River, which parallels the Danube, and thence via the Kulpa River to Fiume.

ELECTRIC RAILWAYS.—London, Eng.—Reports state that English, French and American engineers are making efforts to secure the contracts for the equipment and work on the proposed Great Northern & City Underground Ry., now being built by the Yerkes syndicate. The electric equipment will cost about $1,500,000. Several other large electrical contracts will be awarded in the near future. One of these is that of the District Steam Underground Ry., which involves an expenditure of $5,000,000. Inasmuch as C. T. Yerkes controls this line, it is considered that the electricalization contract will go to the United States. The Metropolitan Steam Underground line will shortly adopt electric power, and American engineers hope to equip it. Further work of a like nature will come a little later in the case of Mr. Yerkes' trunk line from Charing Cross to Hampstead Heath.

CONTRACT PRICES.

BRIDGE.—New York, N. Y.—The following bids were received May 20 for constructing a bridge over Mott Haven Canal at 135th St., Borough of the Bronx; A. Smith was awarded contract on alternate bid:

Bids Received at New York, N. Y., May 20, 1901, for Constructing a Bridge Over Mott Haven Canal.

Quantities.		Cunningham & Kearns, 307 E. 86th St.	Snare & Triest, 39 Cortlandt St.	Augustus Smith, 39 Cortlandt St.	Cort Const'n Co., New York, N.Y.	King Bridge Co., 120 Liberty St.	Bernard Rolf, 39 Cortlandt St.	John G. Tait, 2033 Madison Ave.
Removing old bridge		$0.01	$500.00	$300.00	$500.00	$50.00	$5800.00	$300.00
Earth excavation	2,660 cu. yds.	4.00	3.00	2.50	1.50	2.00	.20	2.00
Rock excavation	17 " "	5.00	3.00	5.00	7.50	10.00	2.00	10.00
Filling	30 " "	.01	.01	.50	.50	.25	.20	2.00
Gravel around piles	57 " "	1.00	.01	1.00	1.25	1.00	.10	1.50
Piles	2,000 lin. ft..	.20	.01	.30	.40	.35	.30	.01
Creosoted yellow pine	9,300 ft., B.M.	50.00	50.00	50.00	60.00	55.00	60.00	55.00
Yellow pine	5,900 " "	25.00	20.00	40.00	40.00	35.00	40.00	30.00
Concrete	990 cu. yds.	4.00	9.00	8.00	8.00	7.00	7.00	7.25
Ashlar (alternate)	160 cu. yds.	11.00	11.00	15.00	11.00	10.00	14.00	12.00
Rubble (alternate)	160 " "	11.00	8.00	8.00	9.00	7.00	6.00	5.00
Coping	1,310 cu. ft...	1.30	1.00	1.00	1.00	.80	.75	.65
Bridge seat	230 " "	1.30	1.00	1.00	1.50	.60	.75	.65
Waterproofing	1,870 sq. ft...	.12	.20	.20	.13	.15	.25	.10
Steel	123,100 lbs.....	.043	.0445	.035	.045	.049	.04	.04
Counterweight	162,000 "	.024	.021	.015	.025	.0175	.015	.02
Machinery	57,900 "	.086	.11	.05	.09	.0735	.085	.09
Railing	82 lin. ft..	3.40	3.15	2.50	2.50	3.50	3.25	3.00
Total		$34,071	$37,385	$30,481	$32,881	$30,429	$31,106	$30,551
Alternate bid		34,071	36,805	29,361	32,561	29,949	29,826	29,431

TORPEDO STOREHOUSE.—Tybee Island, Ga.—Capt. Cassius E. Gillette, U. S. Engr., Savannah, Ga., received the following bids May 18, 1901, for constructing a torpedo storehouse at Fort Screven, Tybee Island; (1) bid of Peter Schmahl, Savannah; (2) Henry Monk, Pensacola, Fla.; (3) W. R. Bonsal & Co., Hamlet, N. C.; (4) John H. McKenzie & Son, Augusta; (5) Geo. H. Crafts, Atlanta, Ga.:

		1.	2.	3.	4.	5.
Brick	120,000 per M..	$21.00	$20.00	$19.00	$20.00	$19.00
Roofing*	3,200 sq. ft...	.14	.17	.11	.16	.24
Concrete	90 cu. yds.	2.75	7.50	5.50	8.00	8.00
Windows	10 each...	57.00	15.00	32.50	25.00	30.00
Iron & st'l	25,000 lbs.....	.06½	.12	.09½	.10½	.08
Excavation	400 cu. yds.	.45¼	.30	.30	.75	.40
Total		$5,550	$6,889	$5,947	$6,807	$6,228

*Galvanized iron for roofing.

BRICK PAVING.—Fort Wayne, Ind.—The board of public works received the following bids May 2, 1901, for 20,000 yds. of brick paving: Barr St., 38 ft. wide—Jos. Derheimer & Co., Nelsonville or Athens block $7.50 per ft., Metropolitan block $7.32, Creosoted block $10.28, curbing 30 cts. per ft.; C. E. Moellering & Co., Nelsonville block $7.74, Metropolitan block $7.43, curbing 25 cts; Barber Asphalt Paving Co., Trinidad pitch lake asphalt $8.78, curbing 30 cts.; R. F. Conway Co., Standard Trinidad asphalt $9.59, curbing 40 cts.; G. H. Cole & Co., Nelsonville or Athens block $8.38, Perkins block $7.86, curbing 30 cts.; Barr St., from Lewis to Holman, 28 ft. wide—Derheimer & Co., Metropolitan $7.58, Nelsonville or Athens $7.75, Creosoted $11.26; Moellering & Co., Metropolitan $7.52, Nelsonville $7.82; Conway Co., asphalt $9.50; Cole & Co., Nelsonville or Athens $8.43, Perkins $7.95. Masterson Ave., 26 ft. wide—Derheimer & Co., Nelsonville $5.76, Logan $5.44, Metropolitan $5.64; Moellering & Co., Nelsonville $6.31, Metropolitan $6.09, 4-in. asphalt block $9.73, 3-in. $8.80; Barber Asphalt Co., asphalt $7.11; Conway Co., asphalt $7.90; Cole & Co., Nelsonville or Athens $6.80, Perkins $6.44. West Jefferson St., 38 ft. wide—Derheimer & Co., Metropolitan $7.06, Nelsonville or Athens $7.42, Creosoted $10.96, curbing 30 cts.; Moellering & Co., Metropolitan $6.87, Nelsonville $7.10, asphalt block $11.54, curbing 25 cts.; Barber Asphalt Co., asphalt $8.63, curbing 30 cts.; Conway Co., asphalt $9.40, curbing 30 days.; Cole & Co., Nelsonville or Athens $8.22, Perkins $7.70, curbing 36 cts. Jefferson St., 38 ft. wide—Derheimer & Co., Creosoted $9.95, Metropolitan $6.67, Nelsonville or Athens $6.81, curbing 30 cts.; Moellering & Co., Metropolitan $7.25, Nelsonville $7.75, asphalt block $12.38, curbing 25 cts; Barber Asphalt Co., asphalt $8.20, curbing 30 cts., Townsend block $7.15; Conway Co., asphalt $8.82, curbing 40 cts.; Cole & Co., Nelsonville or Athens $7.78, Perkins $7.31, curbing 36 cts. Alley, 14 ft. wide—Derheimer & Co., Metropolitan $2.35, Nelsonville or Athens $2.42, Logan $2.00; Moellering & Co., Canton $2.50, Canton No. 2, $2.10.

PARKWAY.—Revere Beach, Mass.—The following bids were received by the Metropolitan Park Commission May 20 for building a portion of Revere Beach Parkway, at junction of Winthrop Ave. to Mill St.; Wm. T. Pierce, Ch. Engr.:

Bids Received at Revere Beach, Mass., May 20, 1901, for Building a Portion of Revere Beach Parkway.

Quantities.		Patrick McGovern, Boston.	A. J. Wellington, Boston.	C. H. Eglee Co., Boston.	Rowe & Hall, Boston.	Rich'd Falvey, Somerville.	John H. McCusker, Waltham.	Coleman Bros., Charlestown.	M'Carthy & Gill, Somerville.
Earth grading	10,000 cu. yds.	$0.38	$0.30	$0.64	$0.30	$0.32	$0.25	$0.30	$0.23
Filling material	17,000 " "	.75	.70	.67	.53	.65	.50	.50	.52
8-in. drain pipe	425 lin. ft..	.15	.25	.29	.35	.25	.23	.30	.19
10-in. " "	2,350 " "	.20	.35	.35	.40	.30	.33	.35	.27
12-in. " "	800 " "	.25	.40	.40	.50	.40	.43	.50	.32
15-in. " "	1,950 " "	.30	.55	.55	.75	.60	.60	.60	.50
18-in. " "	1,330 " "	.40	.75	.70	.95	.80	.75	.70	.65
Brick masonry	200 cu. yds.	14.50	15.00	12.00	14.00	12.00	12.00	12.00	11.00
Straight edgestone	825 lin. ft..	1.00	1.00	1.00	1.25	.90	.90	.90	.75
Curved edgestone	1,150 " "	1.40	1.40	1.45	1.25	1.25	1.20	1.15	1.25
Brick-paved gutters	1,800 sq. yds.	2.00	2.00	2.50	1.75	2.00	2.35	2.00	1.70
Sidewalk surfacing	8,600 " "	.25	.30	.30	.34	.25	.25	.21	.21
Loam surfacing	4,000 cu. yds.	.40	.35	.25	.38	.25	.10	.30	.30
Loam furnished	6,000 " "	1.45	1.20	1.00	1.05	1.10	.90	1.00	.87
Brkn stn rdwy surf.	16,000 sq. yds.	.55	.50	.41	.55	.54	.50	.45	.45
Gravel roadway surf.	16,000 " "	.45	.50	.36	.47	.30	.35	.30	.33
Total		$55,786	$54,434	$52,352	$51,708	$48,985	$44,687	$44,022	$41,973

WATER PIPE, ETC.—Rutland, Vt.—The following bids were received May 20, 1901, for furnishing water pipe, etc.: R. D. Wood & Co., Philadelphia, 3-in. pipe, $28; 4-in. pipe, $24.25, and 6-in. pipe, $23.25 per net ton; special castings, 2¼ cts. per lb. John Fox & Co., New York, 400 ft. of 6-in. pipe, 300 ft. of 4-in. pipe or 200 ft. of 3-in. pipe, for $23.90; specials, 2¾ cts. F. A. Houdlette & Son, of Boston, 1,900 ft., or a carload of assorted 3, 4 and 6-in. pipe, $26.50 per gross ton; specials, 2¾ cts. W. J. Drummond & Co., of New York, 6-in., $23.70; 4-in., $24.70; 3-in., $26.70; specials, 2⅝ cts. The Warren Foundry & Machine Co., $26 per gross ton, subject to acceptance before May 25; specials, 2⅝ cts. The U. S. Pipe & Foundry Co., 6-in., $23.40; 4-in., $24.40; 3-in., $25.90; specials, 2⅝ cts.

MASONRY BRIDGE SUBSTRUCTURE.—Easton, Pa.—The following bids were received by the county commissioners May 9, 1901, for the masonry substructure for the new bridge over Monocacy Creek in Bethlehem; they all being rejected: J. W. Pascoe, masonry, $12.50 per cu. yd.; rubble, $3.85 per cu. yd.; concrete, $4.65 per cu. yd.; Neff & Horn, masonry, $9.75; rubble, $7.75; concrete, $5.25; Herman Rebie, masonry, $9; rubble, $5.50; concrete, $5.

WATER PIPE.—Cohoes, N. Y.—We are informed that the following bids were received May 6, 1901, for furnishing 9,000 ft. of cast-iron water pipe: R. D. Wood & Co., Philadelphia, Pa., 6-in. pipe $21.85 a ton, 4-in. $22.85, specials 2⅝ cts. a lb.; John Fox & Co., 253 Broadway, New York, 4 and 6-in. $24, specials 2¼ cts.; U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, 6-in. $22.90., 4-in. $23.90, specials 2¼ cts.; Warren Foundry & Machine Co., 160 Broadway, New York, 6-in. $22.50, specials 2¼ cts.

PAVING.—Geneva, N. Y.—Henson & Hennessey, of Geneva, have been awarded the following contract for paving: Excavation, 40 cts. a yard; 4-in. curb, laid in concrete, 60 cts. a ft.; same laid in sand, 50 cts. a ft.; drain tile, 12½ cts. a ft.

PORTLAND CEMENT.—Cincinnati, O.—The following bids were received by Maj. W. H. Bixby, U. S. Engr., Cincinnati, May 16 for furnishing 17,000 bbls. of Portland cement, or 25,000 bbls. of natural cement, for Lock 13, Ohio River; the Lawrence Cement Co.'s offer of Dragon brand in paper bags does not allow of specified deductions in case of broken bags:

Bids Received at Cincinnati, O., May 16, 1901, for Furnishing Portland or Natural Cement.

Bidder.	Weight per barrel, lbs.	Brand.	Delivered at railroad siding — Price per barrel — In paper.	In wood.	Computed rate per 100 lbs. — In paper.	In wood.
Portland Cement.						
Charles Warner Co., Wilmington Del.	380	Nazareth	$1.35	$1.47	$0.355	$0.387
Lehigh Portland Cement Co., Allentown, Pa.	380	Lehigh	1.38	1.545	.363	.407
Atlas Portland Cement Co., New York, N. Y.	380	Atlas	1.38	1.60	.363	.421
The Diamond Portland Cement Co., Cleveland, O.	380	Diamond	1.47	1.64	.387	.432
Lawrence Cement Co., Philadelphia, Pa.	380	Dragon	1.48	1.65	.389	.434
Frank B. Holmes, Detroit, Mich.	380	Wyandotte	1.56	1.83	.411	.482
Empire Portland Cement Co., Warners, N. Y.	380	Empire	2.25	2.40	.592	.632
Natural Cement.						
The Cummings Cement Co., Pittsburg, Pa.	265	Obelisk	.765	.92	.288	.347
D. J. Kennedy, Pittsburg, Pa.	265	Best Four, Louisville	.74	.94	.279	.354
D. J. Kennedy, Pittsburg, Pa.	265	Speed Mills, Louisville	.80	1.00	.302	.377
L. S. McKallip & Co., Pittsburg, Pa.	265	Cumberland & Potomac	.81	...	.306	...
B. Walis & Co., Baltimore, Md.	300	Cumberland hydraulic	.95	1.08	.317	.36
Lawrenceville Cement Co., New York, N. Y.	300	Beach's Rosendale	1.18	1.285	.393	.428

SPECIAL CASTINGS.—Milwaukee, Wis.—The Co-operative Foundry Co., of Detroit, has been awarded the contract, at $1.90 per cwt., for furnishing special castings for the water-works.

CEMENT.—Norfolk, Conn.—The water commissioners have received the following bids for furnishing cement for the improvements to Grupe Dam: The Meeker Coal Co., $2.15 a barrel for either Atlas or Alpha; The Norwalk Coal Co., $2.15 a barrel for either Atlas or Alpha; I. Lockwood & Co., $2.24 for Alpha; John H. Ferris, $2.25 for either cement; E. M. Tolles, $1.99 for Alpha; Raymond Bros., $2.25 for Alpha.

INDUSTRIAL NOTES.

WM. B. SCAIFE & SONS, Pittsburg, have designed and are erecting the new plant of the Wilmington Railway Spring & Mfg. Co., at Washington, Pa.

THE CONTINUOUS RAIL JOINT CO. OF AMERICA, Newark, has moved its offices from the Lawyers Building to the Century Building, 142 Market St.

THE LAWRENCE CEMENT CO., New York, has the contract for supplying 10,000 barrels of Dragon Portland cement for the new New York customs house work.

THE McKIERNAN DRILL CO., 120 Liberty St., New York, has just received a $25,000 contract for a central air compressing plant for Shanahan, Woolfolk & Co., South Framingham, Mass., who have an important tunnel contract from the Metropolitan Water Board.

THE BURT MFG. CO., Akron, O., has an order for Burt exhaust heads for the British government, which has also recently given the company its third order for Cross oil filters. The Burt Mfg. Co. recently equipped the large plant of Vickers, Sons & Maxim, in England, with its oil filters.

THE MERRIMACK PAVING CO., Lowell, Mass., has opened new offices in the Central Block. The company makes a specialty of laying asphalt pavements. John H. Pearson, Mgr. and Engr., had charge of the construction of 6½ miles of the L. & A. R. R. in Kentucky previous to his connection with this company last February.

THE UNITED STATES WOOD PRESERVING CO., 71 Broadway, New York, has a contract for $50,000 worth of paving with wooden blocks on Boylston and Beacon Sts. and a $75,000 contract for replanking and paving with wooden blocks the Harvard bridge in the city of Boston. All the wood used will be treated by the creoresinate process of wood preserving.

THE CHICAGO CEMENT COATING CO., 1641 Monadnock Block, Chicago, reports that its waterproof coating is being used for a concrete subway under the railway tracks at Riverside, Ill., and for some masonry arch bridges under the P., C., C. & St. L. Ry. near Pittsburg, Pa. In the latter case it is being used instead of the usual layers of asphalt and neat cement. In Chicago the company has recently applied this coating to manholes in the telephone subways, and to the basement of the large store of Schlesinger & Mayer, which firm has reported that the basement is now kept dry, while formerly it was frequently flooded during heavy rains.

THE SULLIVAN MACHINERY CO., Chicago, has recently become successors to the M. C. Bullock Mfg. Co., and in future will manufacture the complete line of diamond drills, rock drills and mining machinery formerly put on the market by the two concerns. The Sullivan Co. has transferred its Western works into the larger and more commodious building formerly occupied by the Bullock Co. A line of Corliss air compressors and Corliss hoists of all sizes are now being built, which has necessitated the complete overhauling and enlarging of this plant. Two new buildings have lately been erected and are now almost ready for use. The company has recently extended its Western agencies to the Pacific Coast, and now, in addition to the Denver office, in charge of Mr. R. D. Hunter, a branch office has been opened in Spokane, Wash., under the management of Mr. M. J. Ready.

NEW COMPANIES.—Lansdowne Construction Co., Camden, N. J.; $100,000; builders and contractors; Samuel L. Kent, Adolph Ahrens, Max Phillips.

New Jersey Construction & Investment Co., Asbury Park, N. J.; $10,000; improvement of lands; John P. O'Brien, Wm. G. Massarere, Frank H. Kearney.

Universal Wireless Telegraph Co., Pierre, S. Dak.; $20,000,000; J. N. Huston, Thomas B. Bishop, L. C. Smith.

Kingston Auto Electric Fire Alarm Co., Kingston, N. Y.; $30,000; Ira M. Black, E. Metzger, M. J. Hardenburgh.

Anchor Construction Co., Jefferson Co., Ky.; $9,000; electric railroads; H. H. Bechtel, Louisville, Ky.; August Fabel, Cincinnati, O.

Orange County Contract Co., Jersey City, N. J.; $10,000; general contracting; Edwin H. Corey, Morgan W. Daboll, Winthrop Pond.

Trans-Mississippi Telephone & Telegraph Co., Des Moines, Ia.; $100,000; H. E. Treachout, M. McFarlane, J. W. Hill.

Selma Light & Water Co., Selma, Cal.; $100,000; electrical inventions; E. Dudley, T. B. Matthews, J. Brownstone.

Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received **Thursday morning.** All places East of the Mississippi should be reached by Friday afternoon.

If your paper is not received promptly, make a complaint in writing to your local post-office officials. This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

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